THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, JANUARY 8, 1910.

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers) and to ensure prompt insertion

REMITTANCES MUST ACCOMPANY INSTRUCTIONS.

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED the MONEY is TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules.

Telephone: No. 852 Bank (two lines). **Telegraphic Address: "Chemicus London."**

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."



The Key to Success

is to advertise in The C. & D. Supplement.

IT WILL PAY YOU TO USE THIS KEY.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON (Central).—Retail and Dispensing Business, chiefly ready money; returns between £1,500 and £2,000 per annum; profits above the average; further details on application.

2.—LONDON BRIDGE STATION (within easy distance of).—Ready-money Business; Retail, Dispensing, and Photographic; returns, under manager, £1,200; scope for development; *net profit* 25 *per cent.*; stock and fixtures valued at £850; price, to include lease and goodwill, £900.

3.—LONDON, S.W.—Established Business; Retail, Dispensing, and Prescribing; returns exceed £700; *net profit about one-third*; early sale desired; price £300.

4.—MIDLANDS. — High-class Business; Retail, Dispensing, Photographic, and Optical; returns £600 per annum; scope for development; roomy house, held on lease; price £350.

5.—WORCS.—Old-established Business, held by vendor many years, now retiring; returns average between £1,050 and £1,100; *gross profit* £450; double-fronted shop; position unique; large residence, garden, and warehouse; price £700, or valuation if preferred.

6.—DERBYSHIRE.—High-class Business; held by vendor 25 years; *gross receipts average* £700, under management; double-fronted shop, handsomely fitted; commodious residence; early sale desired; valuation terms entertained.

7.—NORTH WALES.—Modern Pharmacy, Retail, Dispensing, and Photographic; returns £1,200 (average); handsomely-fitted shop, fully stocked; price £1,250.

8.—HOME COUNTY.—Good-class Business, Dispensing, and Retail, producing a *net income of about* £400 yearly; further details on application; references will facilitate business.

9.—HOME COUNTY.—Very old-established Business; Dispensing and Retail, including Wine and Spirit Department; returns between £1,700 and £1,800 per annum; *profit (net)* £371; intending investors with about £1,000 at command will find this a sound investment.

10.—GLOS. (Market Town).—Cash Retail and Prescribing Business; established 1815; returns last year £740; *gross profit 40 per cent.*; several splendid Proprietaries are included; roomy house; long lease; price £550.

11.—SOMERSET. — Good-class Business; Retail and Dispensing; returns between £1,000 and £1,100 per annum; *profits above the average*; well-appointed shop, fully stocked; excellent residence, held on lease; price £800.

12.—GLOUCESTER (near).—High-class Retail and Dispensing Business, capitally situate in the centre of town; returns £1,300 (average); *net profit* £320; handsomely fitted Pharmacy; corner position; large residence; moderate rental; further details on application.

13.—HOME COUNTY.—Good-class Business (Mixed); established 1804; gross receipts £940; *net profit about* £300; large house, nice garden; rent moderate; long lease; price £700.

14.—SOUTH DEVON.—Established Business; Retail, Prescribing, and Photographic; returns £500 per annum; net income £180; double-fronted shop; corner position; main thoroughfare; price £250.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasise the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

NOTE.—Gone back to the old address,

73 Laurel Road.

BRETT & CO.

VALUERS,

73 LAUREL ROAD, LEICESTER.

Telegrams, "Brett Leicester." Telephone 100 Y.

VALUATIONS have always had our special and personal attention, and an experience of thirty years is at your disposal.

AGENCY.—We have always a large number of *Buyers* on our hooks, and we can frequently find a Purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

STOCKTAKING SPECIALISTS to the Entire DRUG TRADE

1.—LEICESTERSHIRE.—Good Light Family Retail and own Specialities; returns over £600 under manager; can be very greatly increased by personal attention; nice, well-fitted corner shop; an absolute bargain at £150, much less than valuation.

2.—SUFFOLK.—Good Light Retail, Prescribing, some Photo and Wines; returns over £700; one-third net profit; good house in nice country district; plenty of scope for increase; price £465; worth every attention.

3.—LONDON, WEST.—Good-class Retail and Dispensing, no Photo or Optics; returns well over £1,000; net profit £350; price £850; old-established Business, with good house attached; every investigation offered to a bona-fide purchaser.

4.—DERBYSHIRE.—Well-known health resort; practically all Dispensing at full prices; under manager; would do easily £1,000 under principal; returns £700-£800; large house and double-fronted shop; valuation about £700; a rare opportunity to an energetic man.

5.—DURHAM.—Light Retail, Dispensing, Photo, &c.; principally a cash trade; returns about £600, with a net profit of fully one-third; price £550; good double-fronted shop and well fitted.

6.—MIDLANDS.—Light Retail, Prescribing, and Dispensing in a large manufacturing town in a commanding corner position; nice house and old established; returns about £700; valuation about £400; any amount of scope for extension.

7.—GLOS.—In a nice country town; Light Retail, Prescribing; cash trade; large double-fronted shop with good house, old established; returns £740 at good profits; price £550.

8.—WORCESTERSHIRE.—Light Retail; nicely fitted shop, returning £500 annually; to a smart, pushing man a good opportunity to easily double returns; price £350.

We are in immediate want of several Businesses returning £1,000 to £2,000 per annum. Every privacy given.

PARSON C. BAKER

174 VICTORIA ST., LONDON, S.W.

Recommended by—MESSRS. BARRON, HARVEYS & CO.
Telephone: MESSRS. MEGGESON & CO.
No. 27 Victoria. MESSRS. BARCLAY & SON, LTD.

DEATH VACANCY.—London, S.W.—A prosperous Dispensing and Prescribing Business with any Side-lines very profitable; shop well fitted (mahogany); large house, 9 rooms, side entrance; rent £60, on lease; returns nearly £800; price £300 or reasonable offer.

SOUTH COAST.—Splendid position in important street; good shop; new window; large house; long lease; rent £66; can let half off; business has been neglected; £1,000 to £1,500 a year can be done readily; price, value of stock and fixtures, or will accept offer.

SOUTH LONDON.—Junction of two important thoroughfares.—Well-fitted shop and very large house and good garden; rent £60; returns £900, showing net profit over £300; price, value of stock and fixtures; fullest investigation allowed and introduction given.

NEAR PICCADILLY.—Very profitable foreign trade; half rent let off; price £150.

HAMPSTEAD.—Handsome and well-fitted shop; much neglected; now returning £14 to £15 weekly; vendor will take £250 for immediate sale; this is much less than value of stock and fixtures; rent £90; house, 4 rooms, and offices.

FREDK. WM. SMITH

LICENSED CHEMISTS' VALUER.

Valuations for transfer of business, Probate, &c. Businesses for disposal. Stocks and Fixtures purchased to any amount for cash. Stocktakings undertaken. A Register kept of Assistants and Chemists requiring Assistants; no charge made.

3 Belgrave Terrace, LEEDS

TELEPHONE 02949.

TOMTOM

Telegraphic Address.

THOS. TOMLINSON & SON.

Chemists' Valuers and Expert Stocktakers,

Businesses transferred privately.

29 NEW CANNON STREET, MANCHESTER.

MESSRS. BERDOE & FISH,

Chemists' Valuers and Transfer Agents,

35 JEWRY STREET, FENCHURCH STREET, CITY.

TELEPHONE: 1809 CENTRAL.

Have the following Businesses for Disposal. (No charge to Purchasers.)

1.—SOUTH COAST.—Good-class Retail and Dispensing Business; in splendid unopposed position; returns average about £1,150 at good prices; handsome pharmacy, well stocked; splendid house; price £800 or valuation terms can be arranged.

2.—BERKSHIRE.—Good-class Retail, Dispensing, and Photographic Business; returns over £850; large house and garden; large, well-fitted shop, heavily stocked; price £525, or valuation.

3.—LIVERPOOL.—Light Cash Retail Business; well established; returns about £1,000; net profit over £250; handsomely fitted shop, in unique position, fully stocked; price £375, or valuation.

4.—MONMOUTHSHIRE.—Good-class Country Retail Business in market town; returns under manager nearly £700; plenty of scope; low rent; exceptionally well stocked; price £450 or offer.

5.—HAMPSHIRE.—Light Family Retail Business in good-class growing district; returns nearly £700; no side-lines; plenty of scope; net profit £220; good house and shop; price £440.

6.—GLOUCS.—Very profitable Retail, Dispensing, and Prescribing, with own Specialities; in good-class district; returns £450; net profit exceeds £200; good house and shop; valuation or offer.

7.—LINCS.—Unopposed Village Retail Business; returns £250 under junior; rent under £20; price only £130, simply valuation.

8.—LONDON, WEST.—Good-class Family Retail, Dispensing, and Prescribing; in splendid position; returns approach £1,000; price £800 or £100 and valuation.

9.—SOUTH KENSINGTON.—Good-class Retail and Dispensing; returns over £1,100; net profit £350; main-road position; price £850.

10.—SUFFOLK.—Unopposed Light Retail Business; no Mixed or heavy trade; returns average £800; good house; low rent; well-fitted shop, heavily stocked; price £465; a bargain.

11.—CHESHIRE.—Good-class Retail and Dispensing Business; 2,500 prescriptions yearly, increasing; returns £600; net profit £185; good house; low rent; fine corner position; price £375 or valuation.

12.—SOUTH COAST (fashionable town). — Good-class Retail and Dispensing Business; returns about £650; plenty of scope for increase; gross profit £240; well-fitted shop and good stock; price £350.

13.—COUNTY DURHAM.—Good-class Light Retail Business; easily worked; returns exceed £650, increasing; net profit £200; well-fitted shop, fully stocked; no near opposition; price £400.

14.—BOURNEMOUTH (near).—Neglected Branch Business; returning £5 week under indifferent management; can easily be doubled; double-fronted shop; good stock; price only £130, less than valuation.

15.—DEVON.—Good profitable Retail and Prescribing, with Dispensing; in splendid position; returns £500; net profit £190; fine corner shop and good house; price, valuation, about £250.

16.—MIDDLESEX.—Light Retail and Prescribing Business; returns £500; fast-growing district; best position; low rent; good house and long garden; price for early sale £225; worth attention.

17.—LONDON, S.W.—Good-class Retail; returns £621; net profit £225; main road position; price £425, about valuation.

18.—STREATHAM.—Light Family Retail; returns £680; net profit £200; good house and garden; valuation required, about £300.

STOCKTAKING.

We are now booking Stocktakings for 1910, and shall be pleased to send our special terms on application. See page 132, C. & D. Diary, 1910. Interviews arranged, correspondence invited.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond, prepaid.

NOTE.—Replies can be addressed to this Office and forwarded to the Advertiser for an Additional charge of 6d.

COLONIAL BUSINESSES

We call the special attention of our Colonial subscribers to the opportunity this Supplement affords when they wish to dispose of their Businesses, of getting into touch with likely buyers either at home or in the Colonies.

Replies to Advertisements may be addressed to this office and forwarded to the Advertiser for an additional charge of 6d. Trade circulars and samples can in no case be forwarded

BIRMINGHAM.—Drug-store for Sale; thickly populated district; no immediate opposition; good shop and house, 2 windows; moderate rent; could be worked up to good business; qualified or unqualified; satisfactory reasons for disposal; any reasonable offer. Address, 132/12, Office of this Paper.

DURHAM COUNTY.—Seaport town; good-class Family and Dispensing Business; net profit after all expenses £250; opposition slight; good family house; splendid suburb; owner going into medical; price £350 for quick sale. Fredk. Wm. Smith, Chemists' Valuer, 3 Belgrave Terrace, Leeds.

EASTERN COUNTY (Market Town).—Good-class Business, with valuable Proprietaries; selling solely through illness; returns £900, can be much increased; good profits; well fitted and heavily stocked; splendid house and garden; price £150 and valuation; applicants with about £900 will find this a most desirable investment. "G. E. R." (135/12), Office of this Paper.

ESSEX.—In one of the most rapidly rising suburbs; grand position for increase; opened 4 years; returns last year over £700 and still increasing; good profitable cash trade; fine opening for Dentistry; long lease; moderate rent; modern fittings and well stocked; excellent house; an exceptional opportunity for up-to-date man; must be sold; price near £500. 133/1, Office of this Paper.

HOLBORN.—Owner retiring; genuine bargain; immediate Sale, old-established Chemist's Business; rent £60 inclusive; average gross takings £300 per annum; price for goodwill and fixtures only £150. Apply, by letter in first instance, to Messrs. Walter Hall & Sons, Surveyors and Agents, 38 Chancery Lane, W.C.

KENT.—Chemist's Business; returns last year £330, and increasing; well stocked; low rent and taxes; proprietor leaving the trade; principals only dealt with. "Velpo" (128/38), Office of this Paper.

LANCASHIRE.—Ill-health; Business established 30 years; large sale Drugs and Specialities; returns £500, half profit; price £20 under valuation or no reasonable offer refused for quick sale; valuation possibly £250; part could remain; fixtures and stock could be sold separately and removed. "Tuberculosis" (133/30), Office of this Paper.

LEEDS.—Good-class suburb; returns £500; good house; rent £28 10s.; corner shop; Wine Licence; established 10 years; splendid opening for a young man; could easily be doubled; Light Retail and Dispensing. Fredk. Wm. Smith, Chemists' Valuer, 3 Belgrave Terrace, Leeds.

LEEDS (near).—Country Chemist's Mixed Business; good stock; opening for extensive Farmers' trade and Dentistry; nearest opposition two miles; suit unqualified; good house and garden; fine country; rent only £16; satisfactory reasons for disposal; valuation or reasonable offer; about £250; population 4,000, increasing. Barnes, Rawdon, near Leeds.

LONDON, S.E. — Splendid little Business; situated in thickly populated district; with personal attention would quickly double present takings; genuine bargain; price to immediate purchaser £70; every investigation courted. 130/23, Office of this Paper.

LONDON.—First-class residential suburb; high-class Retail and Dispensing Business; selling solely through serious breakdown; 6,000 prescriptions dispensed yearly; returns over £1,700, net profit nearly £500; handsome pharmacy, exeellent position, fully stocked; price £1,500; personally inspected and recommended by us. Berdoe & Fish, Valuers, 35 Jewry Street, London, E.C.

MIDLANDS.—Profitable Light Retail and Photographic, returning £500; best position in good manufacturing town; low rent; good house; no limited company opposition; several valuable Proprietaries; good reason for disposal; valuation only required; no agents. Apply, "Salicylas" (131/20), Office of this Paper.

NEAR MANCHESTER.—Must be Sold, well-established, good Light Retail, Prescribing, and Photographic in growing district; practically no opposition; few Patents; returns about £400; price, valuation, about £200, or nearest offer; excellent reasons for disposal. 132/16, Office of this Paper.

SCOTLAND.—Thriving Chemist's Business for Sale in large town (Aberdeenshire); prominent position main street; old established; good and increasing turnover; profits above average; several valuable Proprietaries; splendid opening for Dentistry; good reasons for disposal. Apply, "Scotia" (133/5), Office of this Paper.

SOUTH WALES.—A compact Pharmacy for Sale; up-to-date windows and fittings; doing under management £9 to £10 a week; for sale, £300; £200 can remain. Apply, 127/31, Office of this Paper.

SUBURBS (about 8 miles out).—Small Business; returns about £380; nicely fitted shop; good house and garden; no near opposition; cause of sale ill-health and family affairs; price £190, or near offer. Apply, 133/12, Office of this Paper.

BONA-FIDE Business; very steady profitable cash trade, increasing; net profit £300; working and middle class district, 10 miles N. London; nicely fitted and fully stocked; comfortable house, on long lease; will accept £500 if settled quickly; investigation courted and trial allowed; good opening for Dentistry. 117/19, Office of this Paper.

DEATH vacancy; really genuine Business that has been neglected, but shows now £160 net profit after paying every expense; capable of being doubled; no side-lines; grand opening for Optics and Dentistry; changed hands once in 25 years; lowest price £250; rare opportunity for keen man that seldom occurs at the price; trial allowed with full control. "Extra" (132/38), Office of this Paper.

EXTREMELY profitable Retail with small Dental connection; returns £750; net profits £255; main road, S.W.; handsomely fitted, well stocked; owner retiring through continued ill-health, will accept £400, which is less than valuation of stock and fixtures; splendid opportunity for pharmacist with energy, or doctor. "Owner" (130/21), Office of this Paper.

GOING at £80, almost one-third cost; owner holding appointment must sell; shop well stocked and fitted mahogany; 2 rooms in rear; as going concern or to remove; opening for Dentistry, Optics, and Photo Goods; suitable for Branch store. "Chemist," 3 The Parade, Newington Green Mansions, London, N.

GOOD-CLASS old-established Business near London; good position; nice house and garden; satisfactory reason for disposal; capital required about £1,500; valuable Proprietary article included. 131/30, Office of this Paper.

SOUND Retail, Dispensing, and Prescribing; in splendid position in City of London; increasing, and every prospect of further increase; for quick sale will accept less than value of stock and fixtures; unusual opportunity. "M. V." (135/14), Office of this Paper.

SPLENDID opening for qualified Chemist and Italian Warehouse in large provincial town, Co. Derry, Ireland (principally Dispensing); no competition nearer than 17 miles; very suitable premises to let, main thoroughfare; large roomy shop, lately done up; two large plate-glass windows (new); no stock; photo sent if necessary. 135/3, Office of this Paper.

THIS is an opportunity worth seizing; Branch Business in South Midlands; returns can be verified; last year £500 done without any pushing; good house; no opposition; vendor concentrating efforts other ways; not a cutting shop; £300; part can remain by arrangement. Apply, E. C. Ashford, 32 Gold Street, Northampton.

£280; London, N.W.; only Chemist in street; crowded district; returns last year £475; net profit £234; qualified man would greatly increase; open to strictest investigation; books properly kept; references exchanged; satisfactory reason for disposal. Full particulars from "Genuine" (135/25), Office of this Paper.

£300; South Coast; nucleus of Business in beautiful and rising neighbourhood; well-fitted shop and good house and garden; moderate rent; splendid chance for a pushing man as proprietor is away all day, having other engagements. Address, 136/7, Office of this Paper.

SALES BY AUCTION.

Replies to Advertisements may be addressed to this Office and forwarded to the Advertiser for an additional charge of 6d. Trade circulars and samples can in no case be forwarded.

TO CHEMISTS, OIL AND COLOURMEN, AND OTHERS.

MESSRS. FRYER, COOPER & CO. will SELL by AUCTION, at their Rooms, 3 Redcross Street, Fore Street, E.C., on THURSDAY, JANUARY 13th, at one o'clock precisely, the STOCK of WILKINSON, deceased, removed from 7 Middleton Road, Dalston, comprising 1,200 Patent Medicines and Foods, Toilet Soaps and Preparations, high-class Bay Rhum, Brilliantine, Eau-de-Quinine and Eau-de-Toilette, Perfumery, Tinctures, Powders, Essential Oils, 200 Shop Rounds and Contents, 200 gross Bottles, Scales, Pestles and Mortars, 4 cwt. Brown Paper, together with the stock of an Oil and Colourman, comprising a large quantity of Colours, Gums, Soaps, etc., 5 cwt. Resin, 50 doz. Sash Tools and Paint Brushes, 17 Wringing-machines, Show-cases, etc., etc. On view day prior and morning of sale, and Catalogues may be obtained post free of the Auctioneers, 3 Redcross Street, E.C.

BY ORDER OF THE TRUSTEE.

Re A. O. & A. J. MUNDY.

REMOVED FROM 11 NORTON FOLGATE, E.C.

THE STOCK AND PLANT of a WHOLESALE AND RETAIL CHEMIST, including 500 Show-bottles and Contents, Jars, Carboys, Wet and Dry Drugs, large quantity of Stone Bottles and Jars in Wicker, Scents, Toilet Requisites, Patent Medicines, Pills, Powders, Proprietary Articles, and Chemists' Sundries and Fancy Goods, Copper Pans, Measures, Grinding Mills, Iron Presses, Scales and Weights, Fixtures, Fittings, Show-cases, etc.

MR. FRANK G. BOWEN will SELL by AUCTION, at his Rooms, 62A Aldersgate Street, London, E.C., on THURSDAY, January 20, at one.

On view day prior.

Catalogues of Messrs. Francis Nicholls, White & Co., Chartered Accountants, 14 Old Jewry Chambers, E.C., and of the Auctioneer.

TO THE VINEGAR TRADE.

SALE OF BREWING PLANT AT THE OLD ENGLISH VINEGAR CO.'S WORKS, WILD'S RENTS, BERMONDSEY, S.E.

By order of the Liquidator and Receiver, R. E. Starkie, Esq.

MESSRS. FULLER, HORSEY, SONS & CASSELL will SELL by AUCTION, in lots, on the premises, as above, on FRIDAY, JANUARY 21, at 11 o'clock precisely,

VINEGAR-BREWING PLANT,

including a 30-quarter Mash Tun, Metal Boiling Copper, Cast-iron Hot Liquor Backs, Grist Mill, 4 sets one to five throw Gun-metal Pumps, Johnson's 36-chamber Filter Press, 12-barrel Refrigerator, 17 Store Vats from 1,500 to 30,000 gallons capacity, quantity Copper and Iron Piping, Horizontal Engine, Lancashire Boiler, Feed Pump, Shafting, Belting, quantity Casks, Bottles, Cases, and Wrappers, Office Furniture, etc.

Catalogues (when ready) may be had of Messrs. Crump, Sprott & Co., Solicitors, 13 Old Queen Street, Westminster; of Messrs. Peveler & Starkie, Accountants, 25 Bond Street, Leeds; or of Messrs. Fuller, Horsey, Sons & Cassell, 11 Billiter Square, E.C.

BUSINESSES WANTED.

LIGHT Retail Business wanted; North or North-west county preferred, but not essential; returns £600 or upwards; no heavies or dental work; good house. Full particulars to "T. A. H.," 21 St. Flora's Road, Littlehampton, Sussex.

MESSRS. BERDOE & FISH having recently been successful in disposing of a large number of businesses, are in immediate want of sound concerns in London and all parts of the country for cash buyers from £300 to £3,000; strictest privacy guaranteed; correspondence invited from intending vendors. 35 Jewry Street, Fenchurch Street, E.C.

WANTED, a good-class Dispensing Business; London or suburbs. Full particulars, in confidence, "Cosine" (131/17), Office of this Paper.

WANTED, to Purchase a small Business; please give ordinary particulars in first letter, in confidence; returns not less than £8 per week; London or reasonable distance. "G." (135/38), Office of this Paper.

TO LET.

LONDON, N.W.—For Surgeon, Doctor, or Chemist.—To Let, capital Premises; 21 years' lease with Chemist's business, established 30 years, having private and side entrances to two main roads in poor locality; price £200; rent £65. Bakers, 4 Quex Road, Kilburn, N.W.

TO Chemists and Drug-stores. — Norbiton; rare chance; to be Let, well-fitted Chemist's Shop, with nice house; rent £45. Apply, E. Farrar, 14 Victoria Street, S.W.

TO Let, positively a good opening for a Chemist and Druggist, situated in a fast growing neighbourhood, where Chemist is much needed; no other Chemist shop in the road or near; address, 86 Moyser Road, Streatham. Apply, H. Thorp, 42 Pretoria Road, Streatham.

PARTNERSHIPS.

MANCHESTER qualified Chemist, with some capital, to join old-established Wholesale and Retail business; good turnover, with large Surgical Appliance and Optical connection and an opening for Dentistry; a splendid opportunity for an experienced middle-aged gentleman possessing the necessary qualifications; one who is a good Extractor preferred. Address fullest particulars, in confidence, to 135/4, Office of this Paper.

PARTNERSHIP (active) required in sound progressive Wholesale Business by gentleman of good experience; capital £1,000. "X. Y. Z." (133/35), Office of this Paper.

AGENCIES.

A CHEMIST having a good business and connection among Medical men, desires to act as English Agent for a German Pharmaceutical house. Address, "X. Y. Z." (135/23), Office of this Paper.

ADVERTISER, Pharmaceutical Chemist, Queensland and New South Wales, at present in England, and returning to Queensland first week in February, is prepared to take up thoroughly reliable Agencies for the latter Colony, where he has had a wide experience of Chemists' requirements. Apply, 32/25, Office of this Paper.

AGENCY wanted; Advertiser having large and sound connection with Chemists and Drug Stores throughout London and district, would be glad to correspond with firms of repute in view of acting as Sole Agent and Representative; thorough knowledge of every branch; long and substantial references; all communications will be considered strictly *sub rosæ*. 135/34, Office of this Paper.

AN important German firm of Manufacturing Chemists is desirous of negotiating with a gentleman who has had a Medical or Pharmaceutical training and who is fully capable of initiating and conducting a scientific propaganda amongst the profession in the United Kingdom; considerable experience in this class of work, as well as ability to compile Medical Literature essential; knowledge of German desirable. Address full particulars to "Propaganda" (126/24), Office of this Paper.

AGENTS or Travellers, with good connection amongst hospitals, public institutions, Chemists, Stores, etc., wanted to take up paying Side-lines on commission. State particulars, "T." (128/29), Office of this Paper.

PHARMACEUTICAL, Chemical, or Speciality Agency for provincial or Continental manufacturer required by London company having commodious office and warehouse accommodation in central business position; pushful methods and absolute reliability; trained and qualified Chemists on staff. Write, in confidence, "Promptitude" (134/38), Office of this Paper.

APPRENTICESHIPS.

WANTED, an Apprentice; indoors; thorough tuition given; small premium. Apply, "S. S.," 436 High Road, Streatham, S.W.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond, prepaid.



This Blackboard demonst ates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of advertisers who use a number or nom de plume.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitableness.

BE BRIEF BUT CLEAR—millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

REPLIES TO ADVERTISEMENTS may be addressed to this Office and forwarded to the Advertiser for an additional charge of 6*d*. Trade circulars and samples can in no case be forwarded.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that *the Advertiser* pays postal charges in such cases, and perhaps this reminder will obviate the necessity of the constant return of remittances which forgetfulness of this fact entails.

RETAIL.

BIRMINGHAM.—Assistant, young, unmarried, wanted; Counter, Window-dressing, Dispensing; hours 8.30 to 7.30; no Sunday duty; outdoors; salary to commence 30s. per week; photo, or, better still, interview. Apply, Mr. Wakefield, Bellamy & Wakefield, M.P.S., Pharmaceutical and Dispensing Chemists, 1 Easy Row, Birmingham.

BRIGHTON.—Smart, gentlemanly Assistant; half-day; salary 35s.; good Dispenser and Counterman. Send photo and full particulars to "Lux," 56 Lansdowne Place, Hove.

CHICHESTER.—Qualified Locum; must be able to Extract and take Impressions; good references required. State salary and usual particulars, with photo, to Horton, Medical Hall.

CITY OF LONDON HOSPITAL FOR DISEASES OF THE CHEST, VICTORIA PARK, E.

(Nearest Station, Cambridge Heath, G.E.R.)

Applications are invited from gentlemen who hold the Apothecaries' Hall certificate for the post of ASSISTANT DISPENSER at the above Hospital. Salary £80 per annum.

Applications, with copies only of not more than three recent testimonials, must be addressed to reach the Secretary not later than first post January 13.

H. DUDLEY RYDER, Secretary.

EASTBOURNE (by January 25).—Qualified Assistant (about 23), as Dispenser for high-class business. State salary required (outdoors), with usual particulars, enclosing carte (if possible), to H. R. Browne, Pharmaceutical Chemist, Eastbourne.

EASTBOURNE.—Assistant, about 23, wanted, January 12, accustomed to good-class Dispensing and Retail, with knowledge of Photography. State salary (outdoors) and usual particulars, with photo, if convenient, to J. F. Andrews & Co., Chemists, Eastbourne.

ERITH (12 miles from London Bridge).—Obliging Junior Assistant, well up in Photography (indoors), for modern Light Retail and Prescribing business in manufacturing district. Apply, stating age, height, salary required, and references, enclosing photo (which will be returned), to W. Reeson, M.P.S., 80 High Street, Erith, S.E.

EVESHAM.—Unqualified Assistant required; age 26; 30 years. Apply, giving all particulars, with references, to W. J. Craven, Chemist, Evesham.

HAMPSTEAD.—Wanted, at once, Assistant, not over 30, accustomed to good-class Counter trade. Apply in the first instance by letter, giving qualifications and salary required (outdoors), to J. H. Lewis, Ltd., 265 Finchley Road, N.W.

INDIA.—Wanted, for firm in Calcutta, Minor man, single, age about 25, with first-class references; 4 years' agreement; passage paid out and home. Apply, stating experience, etc., 120/13, Office of this Paper.

JAPAN.—A Junior, qualified Assistant; age about 25 years; salary (including board and lodgings) £100 per annum, with an advance of £20 each year; 4 years' agreement; passage paid out and home. Apply, with photo and testimonials, to "R. L.," c/o S. Maw, Son & Sons, 7 to 12 Aldersgate Street, E.C.

LEEDS.—Wanted, qualified Assistant for General Business and Photography; off-licence; hours 8.30 to 9 P.M., Sunday duty every third Sunday; half-holiday weekly. State age, references, and photo to E. Sleight, 134 Burley Road, Leeds.

LONDON, W.—A qualified Dispenser, age under 30 preferred, required for a modern Pharmacy; good references essential; easy hours; one night weekly; 4 o'clock Saturday; no Sunday duty. Applications to be made to Messrs. S. F. Goss, Ltd., 134 Regent Street, W.

LONDON, W.C.—Qualified, smart, and reliable all-round; gentlemanly, tall; knowledge of foreign languages much appreciated. Apply, personally or by letter, including photo, to Cofman's Pharmacy, 6 Bloomsbury Street, W.C.

LONDON, W.—Required, a qualified Assistant (about 30), for outdoor permanency in quick business; must be tall, of good appearance and address, and a successful Counterman. W. V. Wright, 25 Broadway, Hammersmith.

LONDON, S.W.—Junior for Light Retail and Dispensing business, with some knowledge of Photography. Apply, with full particulars, to F. P. Ordish, Dispensing Chemist, 204 High Road, Balham, S.W.

LONDON, S.W.—Qualified Manager; single; age 25 to 30; salary £2 per week, with furnished rooms on premises; hours 9 to 9, Saturdays 10.30, alternate Sunday 6 to 9, half-day weekly 1 P.M.; comfortable shop, happy business. Apply, with usual particulars, to 130/17, Office of this Paper.

LONDON, W.—Wanted, immediately, a qualified Assistant as Dispenser; outdoors; good writer; age from 25 to 30; accustomed to high-class business. Apply first by letter, stating age, salary required, and experience, John Atkins, Chemist, Queen's Road, Bayswater, W.

LONDON, W.—A Junior Assistant, accustomed to good-class Dispensing (indoors). Apply in the first instance by letter, giving full particulars, to W. McEwen, 17 Craven Road, Hyde Park, W.

LONDON, W.—Qualified Assistant; indoors; good-class Dispensing; immediately. All particulars to Harding, The Avenue, West Ealing.

LONDON, N.—Qualified Assistant, at once, with good Dispensing experience; indoors. Full particulars to Saunders, 50 High Street, Highgate.

SITUATIONS OPEN *(continued).*

LONDON, N.—Qualified lady Assistant; well up in Dispensing and Retail; must have Minor qualification. Apply, Webster & Co., 14 The Broadway, Church End, Finchley.

LONDON, S.W.—Qualified Dispenser (about 23 years of age), but to sleep in. Apply, "Globenaris," Messrs. Cooper, Son & Co., Ltd., 80 Gloucester Road, South Kensington, S.W.

LONDON Assistant wanted for smart Store trade; must be quick, accurate, neat, and a good Stockkeeper. Reply, giving usual particulars as to age, height, salary, and refereuces (which must bear investigation), with photo, to 135/33, Office of this Paper.

MANCHESTER.—Junior Assistant wanted (at once); time allowed for classes and study. State age, height, salary required, and reference, to F. Robinson, Chemist, 129 Alexandra Road, Manchester.

OXFORD.—Chemist's Assistant for high-class Store business; good opening for first-class, energetic, competent man; state whether qualified or not, age, height, experience, salary, and references. Also Junior Assistant wanted. Apply, the Oxford Drug Company, Ltd., Dispensing Chemists, Oxford.

ORANGE RIVER COLONY.—Wanted, a qualified Assistant; second-class passage paid out; salary £14, £15, £16 per mouth for the first three years respectively; outdoors. Apply, "O. R. C.," c/o Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C.

PARIS.—Qualified Assistant: age about 25; Continental experience; knowledge of French indispeusable. Address, "Carb." (257/5), Office of this Paper.

PAIGNTON.—Wanted, at once, an unqualified Assistant; indoors; age 21 to 23; must have had Dispensing experience. Send photo, references, and state salary required, Sherriff, Paignton, South Devon.

PLYMOUTH.—Junior (unqualified) or good Improver (indoors). Write, with particulars of experience and salary required, and send photo, if convenient, to Turney & Sons, 183 Union Street, Plymouth.

SOUTH AFRICA.—Qualified Assistants open to accept situations in South Africa should apply to Lennon, Ltd., 54/58 Queen Elizabeth Street, London, S.E., who frequently hear of openings for really good men.

SOUTH AFRICA.—Required, at once, for Port Elizabeth, qualified Assistant, used to high-class Dispensing business, age not over 25, of good appearance, and with excellent references; preference given to abstainer: passage paid out; usual agreement; salary first year £15 per month, second £16, third £17. Apply by letter, stating full particulars, to "S. Africa" (34/13), Office of this Paper.

SOUTH WALES.—Unqualified Managing Assistant; 30-35; good-class General Retail; must be a reliable, energetic business man, well up in the trade, and able to take full charge when necessary; undeniable recent reference required; also good Junior; both indoors; letters not answered in four days declined. Apply, "West" (130/35), Office of this Paper.

SYDENHAM.—Wanted, unqualified Assistant, age about 21, with Photographic experience preferred, for good-class business. Apply, giving full particulars as to age, height, experience, etc., to Sydney Smith & Sons, 28 Kirkdale, Sydenham, S.E.

TWICKENHAM.—Qualified Assistant (23) in Light Retail and Dispensing business. Full particulars and photo to C. J. Palmer, Pharmacist, 20 King Street, Twickenham.

WESTON-SUPER-MARE.—Wanted, a qualified Assistant (indoors). Apply, with usual particulars, to John Cooper, Pharmaceutical Chemist, Weston-super-Mare.

A STEADY and reliable Junior Assistant required (indoors) for good-class country business, with Photography; comfortable home, easy hours, and weekly half-holiday. Apply, giving full particulars as to age, height, salary, etc., to "H." (133/21), Office of this Paper.

BALKWILL & CO. have a vacancy, at once, for a qualified Assistant; one used to first-class Dispensing and Retail. Outdoor. Apply, stating age, height, experience, and salary required, also enclosing photo, to F. W. Hunt, 106 Old Town Street, Plymouth.

COMPETENT Assistant wanted; outdoors; one who has had good all-round experience in country trade; hours 8.30 to 7.30, except Saturdays, 2 o'clock Wednesdays; please state full particulars and salary required; applications if entertained promptly replied to. Randall & Son, Wareham, Dorset.

GENTLEMANLY Branch Manager, qualified (outdoors), in Yorkshire, to develop a Light Retail business and to introduce Optics; knowledge of Photography advantageous; state salary, with reference and photo; interview preferred. Apply, "Development" (34/25), Office of this Paper.

JUNIOR Assistant wanted (not afraid of hard work) for Mixed Cash trade. Apply, stating all particulars, age, experience, referenee, salary (outdoor) required; enclose photo (to be returned). R. T. Forhes, M.P.S., Pharmacist, 48 Castle Street, Edgeley, Stockport.

JUNIOR Assistant wanted for high-class Dispensing business; must have knowledge of Photography. State particulars as to age, height, and salary required (indoors), G. H. F. Dier, Pharmacist, Crowborough.

LEWIS & BURROWS have a vacaney for a first-class qualified Dispenser. If application is made by letter kindly enclose photograph and full particulars to 146 Holborn Bars, E.C.

MANAGER wanted for small Branch on January 11; no Sunday duty; closed on Thursdays at 1.30. Apply, giving full particulars as to salary, etc., and enclosing photo (if convenient), Davies, Chemist, Treorehy.

QUALIFIED Assistant required (outdoors), with good general knowledge of the trade, including Agricultural; must be energetic, obliging, and accustomed to husy Counter work; age not under 35; short hours; no Sunday duty. Full particulars of previous engagements, age, height, salary required, etc., in first letter, 131/14, Office of this Paper.

RANKIN & BORLAND have a vacancy for a qualified Junior Assistant; good Counter experience necessary. Applicatious to be made by letter, stating full particulars, experience, salary, etc., Rankin & Borland, Kilmarnock.

ROYAL FREE HOSPITAL, GRAY'S INN ROAD, W.C.

Applications are invited for the post of SENIOR DISPENSER at this Hospital.

Salary to commence at £150 per annum, with meals.

Candidates must possess the Major qualification of the Pharmaceutical Society and be from 25 to 35 years of age, and have had previous hospital experience in a large Loudon or provincial general hospital.

Applications, with copies of not more than three testimonials of recent date, must be delivered to the Secretary on or before the 24th January, 1910.

CONRAD W. THIES, Secretary.

SMART, energetic Assistant wanted; must be qualified, of good manners and appearance, quick salesman, and clean shopman; one able to take sole charge when required; Store experience essential, and undeniable refereuces. "Chemists," 33 High Street, Kingsland, London, N.E.

STOCKKEEPER (girl) wanted for West-end Store Chemists'; must have had good experienee in similar position and able to help generally. Apply, in writing, stating salary required and particulars of experienee, to "Mayfair" (135/35), Office of this Paper.

TAYLORS' DRUG CO., LTD., have a vacancy for a smart young qualified Chemist (no Sunday duty). Kiudly send full particulars, with photo, to the Superintendent, Taylors' Drug Co., Ltd., P.O. Box 141, Leeds.

THE Guardians of the Poor of the Parish of St. Giles, Camberwell, invite applieations for the appointment of a DISPENSER for their Relief Station, 106 Peckham Park Road, S.E. Applicants must be qualified Dispensers.

Salary £120 per annum, increasing after four years' service to £140, and thence after two years to £150 per annum.

Forms of application can be obtained upon application here, and the same must, when duly completed, be returned to me not later than first post on Tuesday, the 18th instant.

Canvassing the Guardians, either directly or indirectly, is prohibited.

By order,

CHARLES S. STEVENS,
Clerk to the Guardians.

Guardians' Offices, 29 Peckham Road, S.E.,
January 5, 1910.

WANTED, Assistant (registered) to Manage Mixed Country Retail and Prescribing business in Mining district in Durham; unfurnished house; married; must be reliable; one used to the class of business and wishing to settle preferred. Apply, stating salary, age, experience, references, etc., to "Chemist," c/o Messrs. Ismay, Wholesale Druggists, Newcastle-on-Tyne.

WANTED, a reliable Junior for good-class Country Retail; one accustomed to quick cash trade preferred; outdoors. Apply, stating full particulars, with references and enclosing photo, if possible, to J. Benjamin, Chemist, Ross-on-Wye.

WANTED (at once), qualified Assistant (outdoors), used to good-class business. State height and usual particulars, H. Paget Matthews, M.P.S., Pharmacist, Croydon.

WANTED, Manager with good experience; knowledge of Photography; must be well recommended. State full particulars, enclosing photo, to Pearce, Chemist, Newquay, Cornwall.

WANTED, for a Liverpool Hospital, a fully qualified Lady Dispenser; previous hospital experience essential; salary £75 per annum. Applications, giving particulars of age, qualifications, and experience, accompanied by copies of recent testimonials, to be sent by January 21 to "Hospital," c/o Lee and Nightingale, Advertising Offices, Liverpool.

WANTED, unqualified Assistant (age 23-25) for West-end business; outdoors; good Dispensing experience essential. Apply, stating salary and full particulars, "H. B." (135/21), Office of this Paper.

20/- per week with dinner and tea; easy hours; weekly half holiday; occasional Sunday duty; personal interview preferred. Apply, 135/39, Office of this Paper.

60/- a week and small commission for a Dental Operator (mechanic kept); must be capable of using anæsthetic or spray and take charge of the Department, and knowledge of Chemist Counter; if qualified, better commission. Apply, 131/35, Office of this Paper.

WHOLESALE.

AN energetic Representative required, on liberal commission only, by a Manufacturer, to carry a Side-line with an excellent demand among Wholesale Druggists, Manufacturing Chemists, Perfumers, and all packers of Powder Preparation. Those having a sound connection apply, stating ground covered, to "H. & Co." (134/40), Office of this Paper.

CHEMIST, experienced, qualified, and desiring a permanency, wanted by provincial house; must be thoroughly conversant with Steam Power, Manufacture of Galenicals, and General Specialities; should be a capable manager and have excellent references. State previous experience, age, salary required, etc., 128/39, Office of this Paper.

GOOD Travellers wanted for profitable Side-line; easy seller; high-class American goods. Apply, in first instance, "B. K." (124/28), Office of this Paper.

MANAGER for London Branch of Continental firm; manufacturers of Proprietary Articles and other goods. State age, previous experience, salary required, and what security can be given, 33/41, Office of this Paper.

REPRESENTATIVES for districts south of Bristol and north of Manchester, to carry first-class line of Toilet Preparations; only those with genuine established connections should write; part or whole expenses and salary. 122/14, Office of this Paper.

TRAVELLER required to Represent London Wholesale Druggists in Eastern Counties and North of England; first-class connection essential. Reply, stating full particulars of past representation, turnover, ground actually covered, salary, etc., to 32/62, Office of this Paper.

TRAVELLER.—Marr's Currie Powder de-luxe require Representatives on commission throughout the United Kingdom, with connection among Chemists and Druggists. Apply, O. Marr, 18 Trinity Square, Brixton, S.W.

WANTED, male or female Capsule hand for a firm of Manufacturing Chemists; must be fully experienced in the manufacture of hand-made Gelatine Capsules. Apply, with full particulars of previous experience, wages required, etc., to 127/27, Office of this Paper.

WANTED, a first-class Traveller in London district to introduce a ready selling Specialty among Chemists and Fancy-goods' Dealers; handsome salary to a man who can produce results. State age, experience, and qualifications, 126/6, Office of this Paper.

WET Counter.—Wanted, a Junior for the Wet Counter. Address, stating age, experience, and wages required, "Borax" (35/35), Office of this Paper.

SITUATIONS WANTED

1s. *for* **12** *words or less;* **6d.** *for every* **10** *words beyond, prepaid.*

RETAIL.

PART-TIME; tall; good Counterman; Dispensing, Photography; country preferred. Bowker, "Pen Silva," Colwyn Bay.

MANAGING Assistant; unqualified; 37; married; experienced. "Nux," 26 Victoria Road, Maldon.

DISENGAGED; unqualified; several years' experience. R. M Lelean, 2 Rockville, Hautville, Guernsey.

DISENGAGED; Manager; qualified; 34; all-round experience. "Statim," 54 Southgate Road, Islington, N.

QUALIFIED; Locum or permanent; elderly; low salary. "Chemist," 788 Stratford Road, Birmingham.

JUNIOR; age 20; good Counter and Photographic experience; disengaged. Kay, 35 Southtown, Great Yarmouth.

UNQUALIFIED; 35; disengaged; fully experienced; Dispensing, Photography. Herbert, 20 Acton Lane, Harlesden.

QUALIFIED; 27; London or Continent preferred; good experience; fluent French. Beauverd, 27 Clifton Crescent, Folkestone.

MANAGER; 40; unqualified; Locum, Assistant; Prescribing; reliable; good references. "Urgent," 10 Alfred Road, Stratford.

COMPETENT Assistant (37) requires situation; knowledge of Dentistry; disengaged 29th. "Rhei" (35/47), Office of this Paper.

MANAGER or Locum; reliable; competent; excellent experience; highly recommended. "N.," c/o 11 Mayfield Place, Eastbourne.

CHEMIST, married, highest references, very reliable, desires appointment; Locum, permanency, or view to succession. "B.," 270 High Street, Lincoln.

UNQUALIFIED; 23; disengaged. Address 135/4, Office of this Paper.

MANAGER, with or without view to purchase; qualified; married; 37. "Suff" (136/3), Office of this Paper.

DISENGAGED; Junior; 4 years' good experience; Dispensing, Photographic; abstainer. Mussell, Purton, Wilts.

JUNIOR or Improver in good-class business; 3 years' experience; good references; 18. "M.," Surgery, Huxloe Place, Kettering.

JUNIOR or Improver; 19; 6 ft. 2 in.; disengaged middle of January; 5 years' experience in country; suburbs preferred. H. Cook, Heckington, Lincs.

JUNIOR; 21; good experience in high-class Dispensing and Counter business; time for study; South Wales preferred. "Assistant," 17 Misken Street, Cardiff.

ASSISTANT; 21; smart Salesman, Dispenser, Photography, Window-dresser; disengaged January 15; well recommended. A. Harris, 63 Hampton Road, Handsworth, Birmingham.

JUNIOR (22) desires more experience in good-class Dispensing; Birmingham preferred; height 5 ft. 10 in.; good appearance and references. W. F. Gardner, 1 Park Street, Leamington Spa.

ASSISTANT (30), 5 ft. 10½ in., unqualified, requires a permanency; Dispensing, Prescribing, Optics, and Photography; excellent references. "W. L.," c/o Pennington, Chemist, Dinnington, Rotherham.

TEMPORARY or permanent; middle-aged, single, reliable, and competent; exceptional experience, town and country; highly recommended; abstainer; disengaged; unqualified. "Newman," 20 Chapel Street, Uxbridge.

SITUATIONS WANTED (*continued*).

JUNIOR; 21; 5 years' experience, Dispensing, Photography. Jackson, Albany Road, Leighton Buzzard.

FIRST-CLASS experience, England, Ameriea; any position. "Radix," 66 High Road, Anerley.

ASSISTANT; 22; Dispensing; outdoors; time for study. "Cortex" (128/37), Office of this Paper.

ASSISTANT; unqualified; 24; experienced; Midlands preferred. "Rhei," 52 Eden Street, Kingston, S.W.

ASSISTANT; 31; recent Minor candidate; exeellent references. "Veronal," 110 Lichfield Street, Walsall.

EVENINGS and Saturdays; experienced; 27; terms moderate. "Unqualified," 60 Belsize Lane, Hampstead.

ASSISTANT, unqualified. experienced, seeks situation; good Dispenser. Reynolds, 33 Melbourne Road, Ilford.

UNQUALIFIED; 26; 5 ft. 6 in.; thoroughly experienced; excellent Counterman. "Rhei," 5 West Street, Harwich.

JUNIOR; 3½ years' Retail, Dispensing; S.W. distriet; outdoors preferred. "Radix" (127/13), Office of this Paper.

PART-TIME situation wanted; London; student; 25; experienced. "Part-time," 52 Eden Street, Kingston.

JUNIOR; 19; 5 years' apprenticeship; Retail, Dispensing, Photographic. Shore, Jarvis Street, Rochdale.

CHEMIST-OPTICIAN-PHARMACIST, D.B.O.A.; 25; disengaged; good reference; London preferred; outdoors. 130/7, Office of this Paper.

EXPERIENCED Assistant; 23; unqualified; good Dispensing and Counter work; excellent references; permanency. 126/35, Office of this Paper.

ADVERTISER (German), speaking French, seeks situation in City or West End, or in Manehester. Reply to Keller, Kirton Reetory, Ipswich.

JUNIOR; 20½; disengaged January 24; Counter, Dispensing, Photography; short hours for study preferred. S. G. Court, 59 Grovehill Road, Redhill.

ADVERTISER; 27; unqualified; disengaged; experienced in all braneles; well recommended; outdoors. "A. R." (129/35), Office of this Paper.

JUNIOR requires situation in London; time for study; tall; experienced; good Dispenser; take charge. Mellor, 55 Bohemia Road, St. Leonards-on-Sea.

ASSISTANT; good experience in North of England; 22; tall; outdoors; Midlands preferred. G. S. Daykin, "The Common," South Normanton, Alfreton.

QUALIFIED, as experienced Manager; capable of improving business; town or country; West preferred; outdoors; disengaged. 130/15, Office of this Paper.

ASSISTANT seeks berth in country or small town; Agricultural and Mixed business experience; abstainer; good references. Apply, "B.," 3 Winter Street, Halifax.

MANAGER, qualified, middle-aged, to live on premises; married; good Stockkeeper and Counterman; highest references. "G. H." (126/40), Office of this Paper.

MANAGER; qualified; 32; married; first-class Dispensing and Photographic experience; excellent references. "Manager," c/o Smith, Chemist, Ruddington, Nottingham.

ADVERTISER desires re-engagement, Manager, Assistant; abstainer; moderate salary; unqualified; outdoors; excellent Counterman, Prescriber. "Fides," 70 Crawford Street, London, W.

M.P.S., F.S.M.C., as Manager or Senior; succession entertained; 29; tall; disengaged; exceptional references and experience as Manager and Buyer. "McK.," 15 Spring Gardens, Sowerby Bridge, Yorks.

MANAGER or Assistant; Locum or permanent; disengaged; 38; abstainer; 5 ft. 6 in.; Salesman, Prescriber, Extractor, Window-dresser; experieneed Surgeon's Dispenser and Bookkeeper; moderate salary. Smith, c/o Weston, Blackfordby, Burton-on-Trent.

BIRMINGHAM.—Manager; 27; abstainer; 6 ft.; West End and other experience. 139 City Road.

DISENGAGED; unqualified; 38; 16 years' London experience. Fletcher, Black Horse Yard, Whitby.

JUNIOR; 20; tall; good Counterman, Window-dresser, Photography. Oakes, c/o Butterworth, Biddulph.

JUNIOR; 5 years' Dispensing, Photographic; 6 months' Continental. Dodsley, Shrewsbury Road, Birkenhead.

EXPERIENCED Assistant; tall; good Counterman, Dispensing, ete. Haigh, Helme-Leigh, Meltham, Huddersfield.

SURGERY Dispenser; reliable; experience; good references; unqualified. "H.," 20 Priory Avenue, Walthamstow.

UNQUALIFIED; 24; 8 years' experience; references; outdoors. "Statim," "The Willams," Susans Road, Eastbourne.

MANAGER; tall; 36; permanency; disengaged; married; qualified; best experienee. Hiekes, Myton-on-Swale, York.

DISENGAGED; Cash Retail Expert; business increaser; unqualified. "Vim," 6 Hartington Street, Neweastle-on-Tyne.

ASSISTANT, married, seeks berth to live on premises; reliable; excellent referenees. Sugden, 40 Woodhurst Road, Acton, W.

QUALIFIED Pharmaeist and Optician, as Manager; all-round experienee; Photography. Clegg, F.S.M.C., 84 London Road, Reading.

QUALIFIED; 30; Assistant or Manager; high-class Dispensing and Retail; good referenees. "M.P.S.," 3 Ayr Street, Nottingham.

IMPROVER (21½), Frenchman, with English experience, desires situation in Dispensing Pharmacy; London preferred. Miehel, 19 High Street, Stamford.

ASSISTANT (24), trustworthy, abstainer, 7 years' experience, desires engagement, London or near; unqualified. Alexander, 37 Wyatt Road, Forest Gate, E.

LADY Dispenser, qualified, willing, desires post with Doctor or Institution; whole or part time; permanency preferred. "E.," 22 Station Road, Finchley, N.

QUALIFIED; 25; abstainer; disengaged; good-class Dispensing and Retail experience; Photography; outdoors. "Pharmaeist," 36 Corporation Road, Newport, Mon.

MANAGER; experienced; Major; married; abstainer; highest references; reasonable salary for good work; permanency. "Chemist," 116 Spring Street, Bury, Laneashire.

UNQUALIFIED; Assistant or Manager; Dispenser. Prescriber, ete.; outdoors; disengaged; good references; Midlands or North. Morris, 19 Hotspur Street, Shrewsbury.

ASSISTANT; 24; tall; good Dispensing, Counter, and Photographic experience; Birmingham or district preferred; time for study. Cole, Upper Stratton, Swindon, Wilts.

MANAGER, with view to Partnership or succession preferred; Surgical Appliances, Optics, Photographic and Scientific; age 48; married. "Major," 76 Shakespeare Street, Manchester.

MANAGER; qualified; 28; steady, reliable; excellent references; Preseribing, Photography, Homœopathy; first-class Dispensing experience, home and Continental. "Chemist," 22 Clifton Road, Weston-super-Mare.

ASSISTANT (Managing); 39; married; unqualified; thorough experienee all departments; Photography, Extraetor, Prescriber, Sight-testing; highest references. "W.," 5 Victoria Road, Woolston, Southampton.

MANAGER or Assistant; competent all round; Prescribing, Dispensing, Extracting (painless), Photography, Horticultural; disengaged February; age 40; married; no family. "Statim," 35 Burford Road, Evesham.

QUALIFIED Manager, M.P.S.; Dispensing, Photography, Developing, Prescribing, Agricultural and Counter; single; outdoors preferred; abstainer; accustomed entire charge; disengaged. "Abstainer," 195 Kettering Road, Northampton.

POSITION as qualified man; highest references. 134/36, Office of this Paper.

QUALIFIED; 26; disengaged shortly; present situation 3 years. 132/9, Office of this Paper.

SENIOR or Manager; 30; experienced; disengaged; qualified. 131/19, Office of this Paper.

ITALIAN Chemist desires berth; English Pharmacy; services free. Apply, 41 Frith Street, W.

PART-TIME one or two evenings a week; good references, experience. 130/20, Office of this Paper.

QUALIFIED; 25½; abstainer; best references; experienced; provinces. "D." (133/22), Office of this Paper.

DISENGAGED; capable Assistant; excellent references; City or West End. 135/13, Office of this Paper.

PART-TIME; unqualified; experienced in all branches; well recommended; 30. 132/50, Office of this Paper.

EVENING engagement; good all-round, up to date; Saturdays 2 P.M. "H." (135/19), Office of this Paper.

TEMPORARY or otherwise; good London experience. "Chemicus," 35 Crescent Grove, Clapham Common.

DISENGAGED; unqualified; competent Dispenser, also Counter experience; age 29; outdoors. 132/6, Office of this Paper.

LADY Dispenser; qualified; Minor student; doctor or institution; excellent testimonials. Apply 133/11, Office of this Paper.

UNQUALIFIED; 31; all-round experience; 4 years managing; disengaged; excellent references. 132/5, Office of this Paper.

QUALIFIED Medical Man (reading for higher examination) requires post as Dispenser; outdoors. 131/18, Office of this Paper.

WOMAN Chemist desires to meet Chemist with view to Partnership; small capital. "Medica" (132/20), Office of this Paper.

QUALIFIED; 28; Senior or Manager; good Dispenser; excellent references; outdoors. Illingworth, Briggs' Villas, Queensbury, Bradford.

UNQUALIFIED; 30; Photography, Advertising, Window-dresser; reliable Counterman; all-round experience; abstainer. 133/13, Office of this Paper.

PHARMACIST requires Managership, preferably with view succession; London or South preferred; disengaged. Franklin, 4 Doddington Grove, Kennington, S.E.

MANAGER; unqualified; good all-round experience; young and energetic; business builder; married; knowledge of Post-office, Photography. 132/40, Office of this Paper.

QUALIFIED; tall; gentlemanly; middle aged; married; good all-round experience and references; nominal salary; disengaged February 1. 133/10, Office of this Paper.

QUALIFIED Manager (38) desires change; permanency; 24 years' varied experience; 7 years present situation; excellent references; good house essential. 132/4, Office of this Paper.

DENTISTRY, Photography, General Counter; good Dispenser and Prescriber, unqualified, giving up business, desires situation; near Liverpool preferred, but not essential. 131/3, Office of this Paper.

EXPERIENCED qualified Manager seeks engagement; middle-aged; industrious and reliable; reasonable salary; successful Prescriber; correspondence invited. Fortuna, 122 Hatherton Street, Walsall.

YOUNG German, with good practical experience of Retail and Wholesale Drug-trade, thorough knowledge of Photography (Druggist's certificate), seeks situation; moderate salary, excellent testimonials. Write to 134/37, Office of this Paper.

UNQUALIFIED; 30 years' good General experience; 4 years in Wholesale, remainder in Retail; has managed for many years; exceptional reference; requires a position of trust in which his experience would be mutually advantageous; London or district preferred. "F. E.," 3 Abingdon Road, Kensington.

MANAGER; unqualified; 32; reliable, energetic worker; 15 years' practical all-round experience; could work up small business; confident of success; several years in present berth; good references; permanency or with view to succession; London preferred. "Fidelis," 192 Barry Road, East Dulwich, S.E.

LOCUM or for a term; disengaged; qualified. Hobson Key, Brook Estate, Monmouth.

IMPROVER; age 18; height 5 ft. 9 in.; 3 years' experience. Lane, Bower Place, Maidstone.

JOHN PYE, 62 Lynnette Avenue, Clapham Common, South Side, disengaged; day, week, or month.

LADY Dispenser; Hall certificate; disengaged; experienced. "R.," 52 Elgin Avenue, Maida Vale, W.

MANAGER or Locum; long or short periods; experienced; disengaged. Brayne, Newmills, Stockport.

MANAGER; qualified; 32; good experience; disengaged. Bach, 51 Leyton Road, Handsworth, Birmingham.

RELIEF; 4 days weekly free; highly recommended. "Pharmist," 33 Foskett Road, Hurlingham, S.W.

ASSISTANT; middle-aged; reliable; unqualified; good references; outdoor. "B.," 91 Goldsmith Street, Nottingham.

M.P.S.; Manager; experienced; middle aged; active, energetic; London or near. "Ormye," 69 Leytonstone Road, Stratford, E.

MANAGER; 40; experienced; qualified; good class; highest testimonials; Photographic. "A.," Clyde Bank, Parkstone Avenue, Parkstone.

IRISH qualification; age 29; whole or part time; Store experience; good Dispenser; outdoor; London preferred. "Chemist," 58c Fulham Park Gardens, S.W.

MANAGER; temporary preferred; qualified, with over 20 years' Retail experience; abstainer and non-smoker; first-class references; disengaged. Adams, Carysfort, Coulsdon, Surrey.

UNQUALIFIED; Junior or Assistant; 22; tall; 7 years' all-round experience; Retail, Dispensing, Photography; abstainer; disengaged. Perry, 18 Gaolgate Street, Stafford.

YOUNG lady, nearly 5 years' experience, Stock, Serving, Cashier, Counter-dressing, etc., seeks improved situation; well recommended. Address "Corbyn" (132/29), Office of this Paper.

ANALYTICAL Chemist, out of touch with Pharmaceutical side for some years (has served apprenticeship), desires situation with Pharmacist. "X.," 66 Frostom's Road, Workington, Cumberland.

WHOLESALE.

TRAVELLER, 5 years' experience with large Proprietary house, seeks engagement; good connection. 127/11, Office of this Paper.

ESSENCES, Fruit and Soluble Floral Ottos Maker, desires appointment; thoroughly experienced. 135/9, Office of this Paper.

PART-EXPENSES Representative seeks one or two extra Lines; good sellers; connection Midlands. Apply, 132/04, Office of this Paper.

LABORATORY.—Major man desires position; first-class Analytical experience and knowledge of the Manufacturing. 135/24, Office of this Paper.

YOUNG man; Wholesale, Retail; over 3 years' Manager in small Wholesale and Retail; first-class references. Robinson, 55 King Street, Leicester.

AS Representative; gentleman, energetic, good appearance, first-class experience in London and Provinces among Wholesale and Retail trade. 135/20, Office of this Paper.

REPRESENTATIVE, qualified, desires re-engagement; connection Drugs and Sundries; well received, pushful; Midlands preferred. Reply, 130/2, Office of this Paper.

CHEMIST (Minor) seeks engagement with Wholesale firm; inside work or Travelling; thorough experience in Retail; age 34; references. Apply, 133/14, Office of this Paper.

WELL-EDUCATED, gentlemanly Assistant (21), 5 years' first-class Retail experience, excellent references, desires situation with Wholesale firm. 126/38, Office of this Paper.

GENTLEMAN, 15 years' first-class Wholesale experience, desires position as Chemist, Manager, or Representative; home or abroad. "Chemist," 18 Smithfield Street, Birmingham.

I HAVE splendid Lozenge connection Midlands; orders awaiting good house; 23 years' experience, Wholesale and Retail; proof given; excellent references, terms. "Energy" (130/34), Office of this Paper.

SMART Representative, with first-class connection in London among Wholesale Buyers of Fine Chemicals and Pharmaceutical Products, home and export, is open to Represent a good house. 135/36, Office of this Paper.

WORKS Manager or Analyst, expert Manufacturer of Galenicals, Medical and Pharmaceutical Preparations, Fine Chemicals, etc., would take up interest with private company. "Statim" (131/21), Office of this Paper.

REPRESENTATIVE calling upon Doctors (and Veterinary Surgeons) is open for high-class Speciality, enterprising firm; successful interviewer; part expenses, commission. "Linimentum" (132/19), Office of this Paper.

YOUNG man seeks permanency as Traveller for good Wholesale Chemist and Druggist or Mixed business; 16 years' practical experience in old-established business; Midlands preferred; undeniable references. 131/8, Office of this Paper.

ANALYST, with 7 years' experience in the Laboratories of a large firm of Manufacturing Chemists and Druggists, is open to accept an appointment in Analytical or Experimental Chemistry. Please address, 129/33, Office of this Paper.

ADVERTISER seeks position of trust; Wholesale or Retail; London; qualified; accustomed to control; best experience modern trading; plenty of initiative; energetic, with undeniable refcrences. "S. D." (135/5), Office of this Paper.

LABORATORY.—Advertiser seeks re-engagement; responsible position desirable; 10 years' Laboratory and Management experience, practical knowledge in Standardising and high-class Veterinary experience. 131/10, Office of this Paper.

REPRESENTATIVE (30), with established personal connection among Chemists and Stores in North of England, is open to Represent additional up-to-date firm; energetic, temperate; highest references. Reply, in confidence, 129/37, Office of this Paper

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, have now removed from 30 Tranquil Vale, Blackheath, S.E., and the new address is Bank Chambers, Blackheath, S.E. Telephone: 81A Lee Green.

SHARES FOR SALE (free of commission, subject).—55 Allen & Hanbury "B" 6 per cent. Preference, 23*s.* 3*d.*; 2 Evans Lescher Preference, £5 2*s.*; 100 Ilford Ordinary, 13*s.*; 300 Idris "A" 6 per cent. Preference, 4*s.* 6*d.*; 220 Wright, Layman & Umney 6 per cent. Preference, 22*s.*

WANTED (subject).—20 Evans Leseher Preferencc, £5 0*s.* 6*d.*; 20 E. Cook Preference, 107*s.* 6*d.*

List of shares for sale and wanted sent free on application. Bankers, London County and Westminster. Established 1898.

ARTIFICIAL Manure manufacturers and others desirous of supplies of Crude Phosphates suitable for preparation of Artificial Manures, etc., should communicate with "W. D. J." (28/53), Office of this Paper.

WE HAVE WHAT YOU REQUIRE, Drug Fittings, Counters, Wall-cases, Dispensing-screens, Perfume-cases, etc., in almost all sizes; second-hand; condition first-class; prices reasonable. Write for sketches and details giving approximate sizes, or call and inspect. RUDDUCK & CO., 262 OLD STREET, E.C.

CHEMISTS' SHOP-FITTINGS (SECOND-HAND). — Ranges mahogany drawers, with bevelled-edge glass labels and cut-glass knobs, shelving above, lockers below; mahogany dispensing-screens, counters with glass-case fronts, wall-cases, bent-front and flat-top counter-cases, counter-desks, tooth-brush cases, complete shop-rounds, etc.; every requisite for chemists; extensive stock to select from at extremely low prices; practical men sent to all parts; illustrated catalogues and estimates free. MATTHEWS, CHEMISTS' FITTER, 14 and 16 MANCHESTER STREET, LIVERPOOL.

CHEMIST FITTINGS.—SECOND-HAND HIGH-CLASS BARGAINS to clear.—14-ft. Drug-fitting, fitted 60 Drawers, with glass labels, glass knobs, Bottle-lockers; mirror Poison-cupboard, Bottle-shelves, and Cornice; 6-ft. complete mahogany Dispensing-screen and Counter, including Sponge-case; 8-ft. Wall-case, bottom and top part mirror recess; 10-ft. glass-fronted Serving-counter-case, the lot £49 10*s.*; estimates free. H. Mills, Chemists' Complete Shopfitter and Shopfront Builder, Steam Works, 163-5 Old Street, E.C.

POISONS SCHEDULE, *according to the New Act*, reprinted from THE CHEMIST AND DRUGGIST, with a supplementary list of admixtures, preparations, and other articles brought within the Schedule. On a card (Schedule in front, list at the back) to hang up; price 6*d.*, post free, from the Office of the *C. & D.*, 42 Cannon Street, London, E.C.; or at the published price (4*d.*) from the leading Wholesale houses.

TO Trustees, Executors, Liquidators, and others.—Immediate cash to any amount for all descriptions of Chemists' Stocks, Fittings, Fixtures, Wholesalers' Oddments, and Druggists' Sundries; best prices given; cash advanced for any solvent business which can show a good turnover. Apply, in confidence, to J. H. Hemmings, 2 Scylla Road, Peckham Rye, S.E.

GUMMED PRICE TICKETS

1/3

Crimson ground, white figures. Stocked in all usual prices up to 21/-, each price banded separately in hundreds.

The Midget, 9d. per 1,000
The Magnum, 1/6 " "
assorted 10 prices.

Full illustrated list of Blanks for use with these tickets free on application.

10D.

DUDLEY & CO., Ticket Writers & Printers, Holloway, London

A REAL BARGAIN.—In EXCELLENT CONDITION and READY for IMMEDIATE DESPATCH.—10-ft. Fitting with Drawers, Lockers, and Shelving, complete; 6-ft. mahogany Wall-case in two heights; 6-ft. mahogany and plate-glass Dispensing-screen and Counter; 10-ft. mahogany and plate-glass Serving-counter; 3 ft. 8 in. mahogany and plate-glass Counter-case; mahogany Perfume-case and Desk; Baby Silent Salesman; 40 guineas complete. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C. For further list of "READY for USE" BARGAINS, see page 4 of last week's issue.

SUCCESS DURING 1910.—Follow our advice month by month as given in "Business Building," 2*s.* 6*d.* yearly (specimen post free); ready made advertisements for all your Specialities; 2*s.* 6*d.* subscription will save you pounds; push your own Proprietary articles; we will tell you the way. B. Whitworth Hird, Ltd., Advertising Specialists, Norwich.

Dose Tables for Students of Pharmacy.

A TWENTY-FOUR page booklet showing the adult doses in ordinary cases of the principal medicinal agents, with metric equivalents for dispensing and a complete table of atomic weights, comprising the B.P. figures, and the International Committee's latest pronouncements (O=16 and H=1). The booklet measures 4 in. by 2½ in., and can be carried in the vest pocket. To be obtained from THE CHEMIST AND DRUGGIST (Book Department), 42 Cannon Street, London, E.C., for THREE PENNY STAMPS PER COPY, POST FREE.

1910 v. 1909.

When considering last year's turnover, have you considered the proportion of the sales of your own specialities with that of Patents? Why not this year increase the sale of your own specialities and therefore your profits. How? Just send a p.c. for a copy of my Booklet, "How to Increase Your Business," explaining my Business System, which *does* increase the sale of your own preparations. Post free to Pharmacists only—

J. R. B. ALLISON, Pharmacist and Business Specialist, RETFORD.

QUITE SATISFIED AND GRATEFUL

were the words that came to me over the Telephone last Wednesday night when I rang up a London Client from a call-box. This was in reference to my system in general, and facts and figures were quoted at the same time showing that this business which was only opened 12 months ago was doing more than the average London Chemist does generally after many years' trading.

Please refer to my Diary Advertisement on page 336, and then write for my free Booklet, if you are interested in increasing your business.

BERNARD SLACK,
Princes Chambers, Wolverhampton.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No advertisement inserted for less than 6*d*.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

MEDICAL Directory, 1909; 6*s*. post free. STICKLAND, South Kensington, S.W.

ANDREW WILSON'S "Modern Physician," 5 vols.; unsoiled; what offers? STEVENSON, c/o Jeffrey & Son, Pittville, Cheltenham.

FORMULÆ.

FORMULA for sale; black boot-polish. FRANCE, 42 Vartry Road, London, N.

VETERINARY medicines; unique red drink, black drench, lambing oils, garget ointment, chlorodyne, milk-fever drench; 2*s*. 6*d*. each, 6 for 10*s*. DODDS, Crumlin, Antrim.

FORMULÆ.—Non-poisonous green pain-killer, splendid for chilblains, sore throat, etc.; non-poisonous nursery pomade, standard insecticide, elegant; unique horse-cough cure; original formulæ; 5*s*. each; samples two stamps. ROWE, Chemist, Arklow, Ireland.

BROOKS'S reliable recipes; 25 years' reputation; "occasional pills" for ladies, very reliable, safe; "tic specific," acts instanter, never fails; "glycerine and licorice balm," pleasant cough-cure; "corn solvent," instant ease, painless; "ringworm specific," cures long-standing cases; preparations easily made; give universal satisfaction; 25 years' increasing sale; detailed lists free; recipes 1*s*. each, 3 for 2*s*. 6*d*., post free. TOM BROOKS, Chemist, Hornsey, London, N.

OPTICAL AND PHOTOGRAPHIC.

FOURTEEN rolled-gold and plated spectacle, pincenez frames, 21*s*. "OPSIOLOGIST" (131/24), Office of this Paper.

SHARES.

SHARES for Sale. See p. 62.

SHOP FITTINGS.

2 SETS mounted 15-in. cut-out zinc letters, "Drug Stores," also signboard, 4 ft. 6 in. by 5 ft. 6 in. BECK, 60 High Street, Stoke Newington.

OFFERS wanted for ornamental outside globe lamp, complete with bracket, ruby glass, lettered "Cash Chemists," incandescent burners; may be seen any time. SHIRTLIFF & Co., Chemists, Acton Hill, W.

MISCELLANEOUS.

TEN assorted single and double smelling bottles, electro and gilt tops; bargain. 133/23, Office of this Paper.

ASH'S vulcaniser, two flask, copper, gauge, etc.; in good order; 30*s*. or offer; Gem water-still, as new, £1. HOYLE, Chemist, Coventry.

OFFERS WANTED.—72 Eugol tooth-powder; 5 cases Arabella water; 12 show carboys, assorted sizes; one outside mortar lamp, cost £6 6*s*.; 29 1*s*. 1½*d*. Stedmans; 24 1*s*. 1½*d*. Towle's chlorodyne, half price. 124/25, Office of this Paper.

WINDOW attraction, model little girl, 32 in., beautifully dressed, fitted with phonograph, 20 records, cost £5, quite new 25*s*.; 12 dental forceps, 6*s*.; 5-grain pill machine, 6*s*.; opal letters, 6-in. "Dentist," 2*s*. HICKMAN, 5 Abbotts Road, Southall, Middlesex.

2 DOZ. 2*s*. anti-asthma cigarettes, 6*s*. 6*d*. doz.; 3 doz. 1*s*. Glossana gold enamel, 6*s*. doz.; 1,000 lantern slides, cheap; printing press with type, 12*s*.; secondhand Frena, cost £8 8*s*., 30*s*.; No. 2 Junior Kodak, 25*s*.; 1 bot. uricedin, 1*s*. 3*d*.; iron retort stand, 2*s*. 3*d*.; Rein's douche pump (pewter). LEWIS, 27 Glenthorne Road, Hammersmith.

WANTED.

OLD artificial teeth bought; cash return post. BROOKE, 34 Trinity Street, Boston.

REGISTER of Chemists for 1909; lowest price, carriage paid. LOCKYER, Chemist, Deptford.

A MAHOGANY counter, about 10 ft. long; must be cheap. HOWE, Clifton Terrace, Blythe Bridge.

STIRLING'S "Dispensing Notes"; 4th edition. State price. JONES, 101 Smallbrook Street, Birmingham.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. GOWER, Bookseller, Waterloo, Liverpool.

COMPLETE copies of the *C. & D.*, January 25, 1890, including all the insets. Write, stating condition and prices, "H. W.," Office of this Paper.

PAIR beam scales, brass, good condition, for counter, up two or four pounds, for cash; stamped. LAMACRAFT, 105 Carlton Street, Castleford, Yorks.

Dental Notes.

By A Licentiate in Dental Surgery.

Soap as an Antiseptic.

PROFESSOR RODET, after a series of experiments, finds that common soap is an antiseptic not to be disregarded. Added to this, its cleansing-properties make it doubly useful.

The Extraction of Teeth.

Is the extraction of teeth a surgical operation? It may not be looked on as a very serious operation, and unfortunately there are many men at the present time who look on the extraction of a tooth as of very little consequence. It is, however, an operation which may be attended by the most serious consequences, not without danger, and should undoubtedly be classed as a surgical operation. Only the other week an inquest was held on the body of a young man who died from bleeding after tooth-extraction. There was no want of skill in the extraction of the tooth, but the patient was subject to the constitutional condition known as hæmophilia, or "bleeder." Septic poisoning is yet another serious condition which may arise. Occasional deaths have followed the removal of teeth which were the seat of acute suppuration. Patients, especially those of the poorer classes, who are weakly, have filthy mouths, and their systems are unable to resist infections which may prove fatal. In these cases much may be done, and the fatalities avoided, if antiseptic precautions are taken before and after the extraction of the teeth. Antiseptic mouth-washes should be energetically used and all instruments thoroughly sterilised. A saline purgative may be prescribed, and, if necessary, a tonic. If a patient is known to be a "bleeder," some drug known as a blood-coagulant may be given previous to the operation, and each socket plugged with some styptic the moment the tooth is extracted. It is also better to extract only one tooth (if there are several to come out) at a sitting than to extract more and run the risk of perhaps having a fatal case of bleeding. The above two conditions may arise however carefully the teeth are extracted, but there are other complications, more or less serious, which may happen, especially if the extraction has been carelessly performed. Among these may be mentioned facial disfigurement, fracture of jaw, laceration of the soft tissues, and loss of a portion of jawbone. Considering the number of different bacilli to be found in the mouth, and the favourable feeding-ground it forms for these, it is remarkable how wounds in the mouth heal so quickly and without attention, and that there are so few cases of retarded healing, suppuration, sloughing, etc. It is this rapid healing without attention that so many men are apt to take advantage of. They leave the wound to look after itself, a thing which they would not dream of doing to a wound on any other part of the body. After an extraction the patient should be strictly instructed how to keep the wound clean. Should there be any sign of suppuration at the root of the tooth, the infected socket should be treated (syringing with some non-irritant antiseptic—*e.g.*, boric acid) until there is no discharge and healthy granulations have formed. Oral cleanliness is essential in all cases to healthy quick healing, and anything which will promote this should be followed.

Where to Study.

THE following educational institutions are advertising in this issue:

Muter's (South London) College of Pharmacy, 325 Kennington Road, London, S.E.
London College of Chemistry, 323 Clapham Road, London, S.W.
South of England College of Pharmacy, 186 Clapham Road, London, S.W.
Manchester College of Pharmacy, 225A and 227A Oxford Road, Manchester.
Northern College of Pharmacy, 100-102 Burlington Street, Manchester.
Leeds College of Pharmacy, Clarendon Street, Leeds.
Nottingham School of Pharmacy, 13 Victoria Street, Nottingham.
Battersea Polytechnic, Battersea, London, S.W.

Coming Events.

This Section of the "C. & D." is reserved for advance notices of meetings or otber events which are sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Monday, January 10.

National Union of Assistant Pharmacists, Newcastle-on-Tyne Branch, No. 1 Committee Room, 14 Pilgrim Street, at 8.15 P.M. Lantern lecture by Mr. Wm. Jackson, on "Jacobite Song and Story."

Tuesday, January 11.

Bradford Chemists' Association. Rawson Hotel, at 9 P.M. Mr. J. Calvert on "Chemicals and Fertilisers in Agriculture and Horticulture"; Mr. M. Firth on "Fiddle-varnish"; Mr. R. T. Silson on "One Branch of Co-operative Advertising."

Oldham Pharmaceutical Association, Café Monico, Union Street, at 7.30 P.M. Social evening.

Wednesday, January 12.

Society of Chemist-Opticians, St. Bride Institute, Ludgate Circus, London, E.C., at 4.30 P.M. Council-meeting.

Royal Society of Arts, John Street, Adelphi, London, W.C., at 5 P.M. Professor Harold B. Dixon on "The Chemistry of Flame" (Juvenile Lecture II.).

Portsmouth Pharmacists' Association, "The Cadena," Osborne Road, Southsea. Whist-drive. Tickets (2*s.* 6*d.* each, including refreshments) from Mr. E. H. Smith, Hon. Secretary, 47 High Street, Gosport.

Stockport Pharmacists' Association, County Restaurant, St. Petersgate, at 9 P.M. Ordinary meeting.

Borough Polytechnic Institute, 103 Borough Road, London, S.E., at 8.45 P.M. Opening lecture of a further course on "The Chemistry and Technology of the Essential Oils," by Mr. C. T. Bennett, B.Sc., Ph.C. Fee for the course—lectures only, 5*s.*; including practical work, 10*s.*

Newcastle-on-Tyne Pharmacists' Association, Hôtel Métropole, Clayton Street West, at 7.30 P.M. Annual dinner. Tickets (4*s.* 6*d.* each) from Mr. W. Pescod, Hon. Secretary, 60 Osborne Avenue.

Thursday, January 13.

West Ham Association of Pharmacists.—Earlham Hall, Forest Gate, London, E., at 3 P.M. Business meeting.

Chemists' Assistants' Association, 73 Newman Street, W. Social evening at 8.30 for 9.

Glasgow and West of Scotland Chemists' Association, Regent Tea Rooms, 51 West Regent Street, Glasgow, at 9.15 P.M. Mr. J. P. Gilmour on "Counter Etiquette and Ethics."

THE CHEMISTS' BALL is to be held at the Warncliffe Rooms, Great Central Hotel, London, N.W., on January 19. Tickets (lady's 12*s.* 6*d.*, gentleman's 17*s.* 6*d.*) from Mr. Frank U. Stamp, 29 High Street, Hampstead, N.W.

"Soured Milk."

WHAT is it? This question is so frequently put at the present time to chemists by their customers, and by chemists to us and others, that we quote from the "Journal of Practical Dietetics and Bacterio-Therapeutics" the following notes by Dr. Alfred S. Gubb, the editor:

The bacterio-therapeutic method of treating gastro-intestinal diseases was inaugurated when the attention of the medical profession was called to the advantages attending the habitual ingestion of "soured milk." One of the advantages of this method of administering lactic-acid-producing ferments, though not the most important, is that of providing an agreeable addition to the invalid dietary. . . . In large centres little difficulty is at present experienced in obtaining curdled or soured milk *à la lactobacilline* prepared by trustworthy pharmacists or dairy companies, who make a speciality thereof, but when the patient or his friends have to prepare it they are apt to find that it entails the expenditure of a good deal of time and trouble. As a matter of fact, if one possesses a warm chamber and the necessary paraphernalia the procedure is simple enough, and time only is required to obtain a satisfactory product.

The temperature is all-important, because the lactic acid bacillus only thrives at or about 90° F. If this temperature be greatly exceeded its vitality is impaired or destroyed, and at a lower temperature its multiplication proceeds at a much slower rate; hence the importance of maintaining an even temperature throughout the process. Disregard of this detail is probably the explanation of many failures to curdle milk, though there are sundry other obstacles which may have to be overcome or obviated. Milk too heavily laden with preservatives—boracic acid, formol, etc.—undergoes fermentation less promptly and effectually than pure milk, and it is hardly necessary to observe that milk fraudulently diluted with water does not furnish as satisfactory a curd as the unsophisticated article.

As an article of invalid dietary, therefore, soured or curdled milk is a most desirable addition from both the alimentary and the therapeutical points of view. In daily practice, however, it will often be found more convenient to employ the pure ferment in tablet or powder form, since its administration in this form is free from the element of uncertainty inseparable from the amateur preparation of soured milk.

It may be well to point out that soured milk, curdled *à la lactobacilline*, is a very different substance from sour milk, ordinary curdled milk, butter milk, whey, etc. The usual domestic method of clotting milk is by the addition of rennet, which is a peptonising agent, and has nothing in common with the antiseptic anti-fermentative action of soured milk. We mention this because patients for whom soured milk has been prescribed are apt to jump to the conclusion that the curdling is the essential feature of the process, whereas it is a merely incidental change that may be brought about by a very large number of chemical and organic factors.

Minor Experiences.

A CANDIDATE (31/54) at the examination being held at Galen Place, London, this month sends us the following first day's papers given to him and others:

1. Make ʒiv. mist. ol. ricini.

2. Strychninæ ... ... gr. $\frac{1}{60}$
   Acid. arsenios. ... ... gr. $\frac{1}{60}$
   Quinin. sulph. ... ... gr. ij.
   Ft. pil. Mitte xij. Varnish.

3. Morphin. mur. ... ... gr. ½
   Vin. ipecac. ... ... ʒij.
   Syr. tolut. ... ... ʒj.
   Aq. laurocerasi ... ... ʒij.
   Aq. chloroformi ad ... ... ʒij.
   Ft. linctus. ʒj. tussi urgent.

4. Ext. opii ... ... gr. ij.
   Ext. bellad. vir. ... ... gr. ij.
   Ol. theobrom. ... ... q.s.
   Ft. suppos. vj.

5. Lotio. hyd. perchlor. (1 in 2,000). Mitte 250 c.c.

Another.

1. Atropin. sulph. ... ... gr. $\frac{1}{100}$
   Quinin. sulph. ... ... gr. j.
   Camphor. ... ... gr. j.
   Ft. pil. Mitte xij. Varnish.

2. Ol. morrhuæ ... ... ʒij.
   Pulv. acaciæ ... ... q.s.
   Syr. aurantii ... ... ʒss.
   Aq. cinnamomi ad ... ... ʒiv.
   ʒss. 3 or 4 times daily.

3. Make about ½ lb. glycerin amyli, and fill a small pot.

4. Pulv. hyd. ammon. ... ... ℈ss.
   Ceræ alb. ... ... ʒss.
   Ol. amygd. ... ... ʒv.
   Cetacei ... ... ʒss.
   Aq. rosæ ... ... ʒv.
   Ft. cremor.

Another.

1. Prepare 30 grams ung. pot. iodid. containing 25 per cent. wool-fat.
2. Prepare 180 c.c. of eye lotion containing 2 per cent. acid boric and 5 per cent. ext. bellad.

3. Phosphori ... ... gr. $\frac{1}{60}$
   Quininæ ... ... gr. ij.
   Ferri sulph. ... ... gr. j.
   Ft. pil. Mitte xx.

4. Terpin. hydrochlor. ... ... gr. xlviij.
   Morph. mur. ... ... gr. ij.
   Glycerin. ... ... ʒj.
   Inf. senegæ ad ... ... ʒiij.
   M. Ft. mist. ʒj. 4tis horis.

5. Ear blister for right ear.

PRACTICAL CHEMISTRY.

No. 1 Candidate.

A. Estimate percentage of HCN in aq. laurocerasi provided. (Note.—Own solution $AgNO_3$ to be made.)

B. Salt for analysis proved to be bismuth oxide and potassium tartrate.

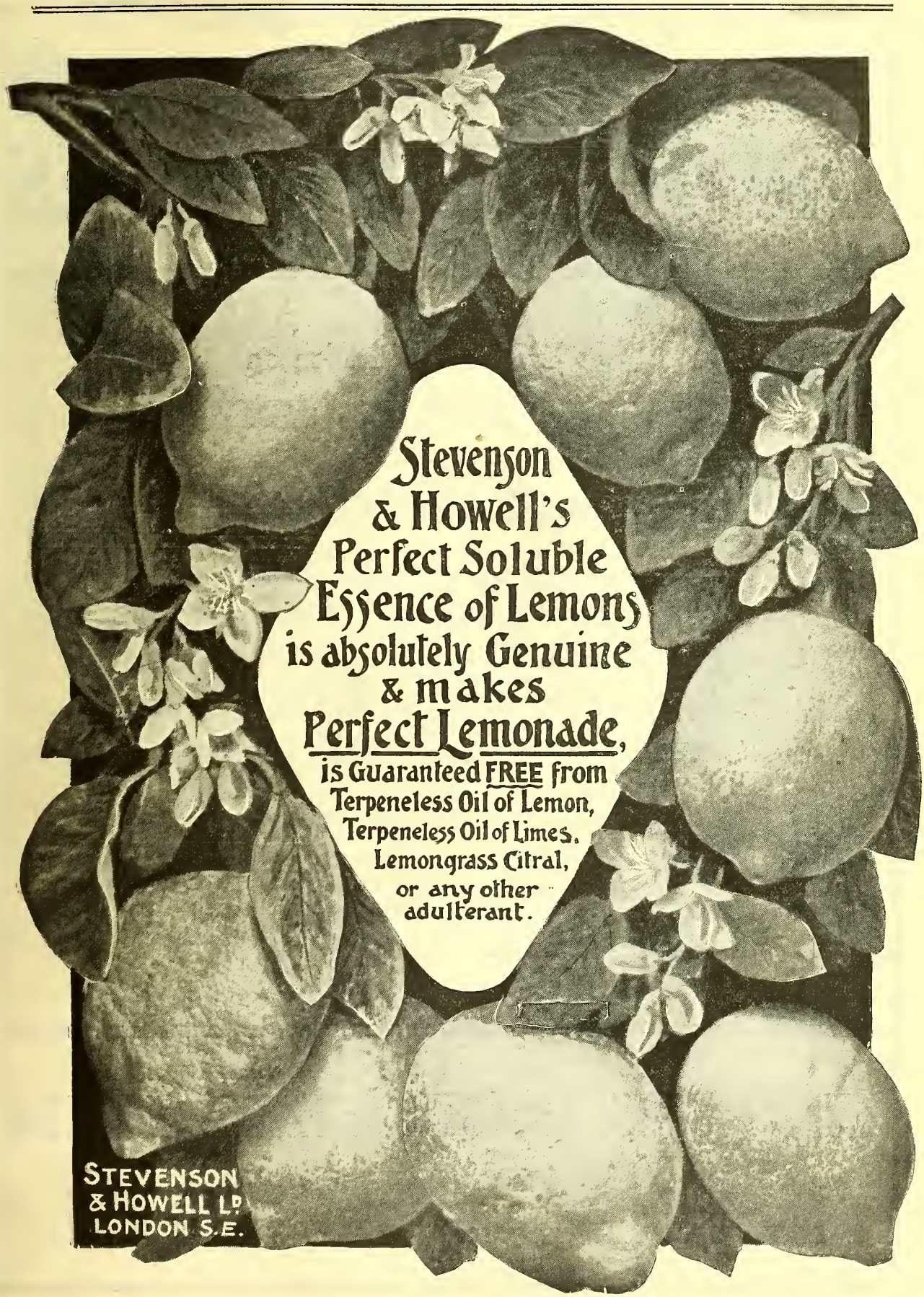
No. 2 Candidate.

A. Estimate how much KI in sample of potassium iodide and nitrate, the silver solution being 15 grams per litre.

B. Identify the substance in solution.

C. With sample of mercuric chloride prepare a sample of mercurie iodide.

Printed for the Proprietors by SPOTTISWOODE & CO., LTD., New-street Square, and published by the Proprietors at 42 Cannon Street, in the City of London.—*January* 8, 1910.


Stevenson
& Howell's
Perfect Soluble
Essence of Lemons
is absolutely Genuine
& makes
Perfect Lemonade,
is Guaranteed FREE from
Terpeneless Oil of Lemon,
Terpeneless Oil of Limes,
Lemongrass Citral,
or any other
adulterant.
STEVENSON
& HOWELL Lp
LONDON S.E.




DRUGGISTS' SUNDRIES

We have in preparation an

ENTIRELY REVISED EDITION

of our

DRUGGISTS' SUNDRIES LIST

which will be found as complete as any in the trade, prices comparing favourably for the quality of goods we supply. Our customers, in making up their orders, can rely upon prompt delivery, as we only quote goods we stock.

Soiled stock can be avoided by ordering as required with other goods, carriage being paid on £5 value of goods assorted from any of our departments.

EVANS SONS LESCHER & WEBB, LIMITED

Liverpool and London.

LIVERPOOL, January 1st, 1910.

The *Lancet* Commission.

We are prepared to prove that definite conclusions of the recent *Lancet* Commission on the Standardisation of Disinfectants were arrived at from indefinite and erroneous data. In the words of Dr. Samuel Rideal, referring to two of our products in his letter to the *Lancet*, discrediting the work of this Commission,* "the Commissioners are hopelessly wide of the mark in the case of these two disinfectants, not only bacteriologically but chemically."

We challenge the Commissioners

to afford us an opportunity of demonstrating to them the inaccuracy of their findings.

That there may be no mistake as to our position in this matter we quote the following from the letter of our Managing Director to the Editor of the *Lancet*†:—

> "It is quite true that at one time the co-efficient 4 was guaranteed and published for Jeyes' Fluids, but for some time past it has been guaranteed at 5, and I should like to add that it is retained at only 5 in order to admit of adding certain other properties which fit Jeyes' Fluid for use as not only a reliable bactericide but also an insecticide, a deodorant, and a non-toxic general cleanser, making it, we claim, the best and safest all-round disinfectant for household use. The co-efficients of our various products are guaranteed to range from 5 to 22 according to the purposes for which they are required. For example, where a strong bactericide only is wanted, as in public health work, &c., we offer our Special Fluid Cyllin, and where the only water available for purposes of dilution is very hard, salt, or brackish, we recommend crude Cyllin."

* *See "The Lancet," Dec. 18/09.*
† *See "The Lancet," Jan. 1/10.*

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THE BUYERS' GUIDE.

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Minter's (So. Lond.) School of Pharmacy
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Potter & Clarke
Standard Tablet & Pill Co.
Stnrge, John & E.
Tyrer, T., & Co., Ltd.
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Evans Sons Lesoher & Webb
Hay, Wm., Ltd.
Lautier Fils
London Essence Co.
Lorimer & Co., Ltd.
Newball & Mason
Spencer, J., Son & Co.
Stevenson & Howell, Ltd.
Zimmermann, A. & M.

ETHERS
Baiss Bros. & Stevenson, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons

EUCALYPTUS OIL
Baiss Bros. & Stevenson, Ltd.
British Drug Houses, Ltd.
Hymans, H., & Co.

EXTRACT OF HERBS
Newball & Mason
Potter & Clarke

EXTRACTS (MEDICINAL)
Allen, Strafford, & Sons, Ltd.
Chemist's Co-operative Wholesale
Gathergood's Exor.
Howlett, C. J., & Son
Parke, Davis & Co.
Ransom, W., & Son
(*See also* WHOLESALE DRUGGISTS)

FEEDING BOTTLES
Breffit, E., & Co., Ltd.
Hovenden R., & Sons, Ltd.
Kilner Bros., Ltd.
Maw, S., Son & Sons
Sangers'
Southall Bros. & Barolay, Ltd.

FILTERS (WATER)
Berksfeld Filter Co., Ltd.

FLESH GLOVES
Sangers'

FLYCATCHERS
Deansmere Manfg. Co.
Ford, Shapland & Co.
Kay Bros., Ltd.
Smith, J. H., & Co.
Tunbridge & Wright

FOODS, INFANTS'
Allen & Hanburys, Ltd.
Benger's Food, Ltd.
Frame Food Co., Ltd.
Lofthouse & Saltmer
Natural Food Co., Ltd.
Willows, Francis, B. & T.

FOODS, SPECIAL
Allen & Hanburys, Ltd.
Bayer Co., Ltd
Benger's Food, Ltd.
Brand & Co., Ltd.
Burt, C. J.
Buvo, Ltd.
Callard & Co.
Fairchild Bros. & Foster
Frame Food Co., Ltd.

FOODS, SPECIAL (*continued*)
Menley & James, Ltd.
Natural Food Co., Ltd.
Wander, A.

FORMALDEHYDE
Burt, Boulton & Haywood

FRUIT CRYSTALS
Aerators, Ltd.

FRUIT SYRUPS
Idris & Co., Ltd.

FULLER'S EARTH
Mumford, G. S., & Sons

FUMIGATORS
Sanitas Co., Ltd.

GELATIN AND GLUE
Boehm, F., Ltd.

GLASSWARE, CHEMICAL
Zahradnik, Jos.

GLAUBER'S SALT
Bramwell, E., & Son
Howards & Sons, Ltd.

GLYCERIN
Boehm, F., Ltd.
Price's Patent Candle Co.

GLYCERIN PLANT
Forshaw, E., & Son, Ltd.

GLYCEROPHOSPHATES
Pointet & Girard

GOLD PAINT
Judson, D., & Son

GRINDERS
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis, B. & T.

GUMS
Fink, F., & Co.

HAIR PREPARATIONS
Anglo-Continental Trading Co.
Capsuloids (1909), Ltd.
Chesebrough Manfg. Co.
Edwards' "Harlene" Co.
Egglossa Mnfg. Co.
Harker, Stagg & Morgan
Herpicide Co.
John Strange Winter
Ni-Verre Chemical Co.
Pomeroy, Mrs., Ltd.
Robare's Aureoline
Rowland, A., & Sons
To-Kalon Mnfg. Co., Ltd.

HAT DYES
Whitaker & Co.

HAT RENOVATORS
Christy, T., & Co.

HEATING APPARATUS
Clark, S., & Co.
Wright, John, & Co.

HERBS
Carmichael, F. J., & Co.
Potter & Clarke

HOMŒOPATHIC MEDICINES
Ashton & Parsons, Ltd.
Epps, James, & Co.
Keene & Ashwell, Ltd.
Leath & Ross

HOTELS
Esmond Hotel
Kingsley Hotel
Thackeray Hotel

HOT-WATER BOTTLES
Berliner, Arthur
Burge, Warren & Ridgley
Dunlop Rubber Co., Ltd.
Fulham Pottery & Cheavin Filter Co., Ltd.
Galen Mfg. Co., Ltd.
Hutchinson Co.
Maw, S., Son & Sons
May, Roberts & Co.
Southall Bros. & Barolay
Tompkins, James, Ltd.
Wood, Vincent

HYDROGEN PEROXIDE
May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer, T., & Co., Ltd.

HYPOPHOSPHITES
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

INHALERS
Christy, T., & Co.
Sangers'

INK
Bewley & Draper, Ltd.
Hiokisson, A. B.

INSECTICIDES
Christy, Thos., & Co.
Smith, B. A., & Co.
Tomlinson & Hayward, Ltd.
Vaporite-Strawson Co., Ltd.

INSECT POWDER
Boehm, F., Ltd.
Smith, B. A., & Co.

IODINE AND IODIDES
Howards & Sons, Ltd.
Morson, T., & Son

ITROSYL
Fletcher, Fletcher & Co.

JARS AND POTS
Breffit, E., & Co., Ltd.
Bush, H. W., & Co., Ltd.
Christy T., & Co.
Johnsen & Jorgensen, Ltd.
Kilner Bros., Ltd.
Lang, Jules, & Son
Maw, S., Son & Sons
Poths, H., & Co.
Renter, R. J.
Stipendum Stopper Co.
Toogood, W., Ltd.

LACTIC FERMENTS
Allen & Hanburys, Ltd.
Cox, Arthur H., & Co., Ltd.
Davies, Sons & Co.
Lloyd, T. Howard, & Co.
Martindale, W.
Parke, Davis & Co.
Standard Tablet Co.
Wilcox, Jozeau & Co.

LANOLINE
Burroughs Welloome & Co.
Christy, T., & Co.

LARD
Chemist's Co-operative Wholesale
Ewen, J., & Sons

LIME JUICE AND CORDIAL
Evans Sons Lesoher & Webb
Goodall, Backhouse & Co.
Idris & Co., Ltd.

LINSEED, CRUSHED, ETC.
Allen, Stafford, & Sons
Mumford, G. S., & Sons

LINTS
Liverpool Lint Co.
May, Roberts & Co., Ltd.
Robinson & Sons, Ltd.
Vernon & Co., Ltd.

LIQUORICE JUICE
Boehm, F., Ltd.
British Drug Houses, Ltd.
Carmichael, F. J., & Co.
Evans, Gray & Hood
Evans Sons Lesoher & Webb, Ltd
Horner & Sons
Jackson, E. E.
Mumford, G. S., & Sons

LIQUORS, CONC., ETC.
Allen, Stafford, & Sons, Ltd.
Fletcher, Fletoher & Co.
Hewlett, C. J., & Son
Robinson, B., & Co.

LITHIA SALTS
British Drug Houses, Ltd.
May & Baker, Ltd.
Merck, E.

LOOFAHS
International Sponge Importers

LOZENGES
Cox, A. H., & Co., Ltd.
Denoual, J., & Co.
Jackson, E. E.
Meggeson & Co., Ltd.
Potter & Clarke
Raimes & Co.
Warrick Bros.

MACHINERY, PHARMACAL
Allen & Hanburys, Ltd.
Bennett, E., & Son, Ltd.
Bennett, Sons & Shears, Ltd.
Forshaw, E., & Son, Ltd.
Gardner, Wm., & Sons, Ltd.
Pindar, J. W., & Co.
Smith, B. A., & Co.
Stokes, F. J., Machine Co.
Thompson & Capper (Stokes)
Wilkinson, S. W., & Co.

MAGNESIA AND ITS SALTS
Henry, T. & W.
Howards & Sons, Ltd.
May & Baker, Ltd.
Parke, Davis & Co.
Washington Chemical Co.

MENTHOL CONES
Bush, H. W., & Co., Ltd.
Maw, S., Son & Sons

MAILING CASES
Estes, E. B., & Sons

MARKING INK
Hiokisson, A. (Bond's)

MEDICINE CHESTS
Burroughs Wellcome & Co.
Keene & Ashwell, Ltd.
Leath & Ross
Lloyd, T. Howard, & Co.
Parke, Davis & Co.

MALT EXTRACT AND PREPS
Allen & Hanburys, Ltd.
Blaokie, R.
British DiaMalt Co.
Burroughs Wellcome & Co.
Evans Sons Lesoher & Webb
Hewlett, C. J., & Son
Lorimer & Co., Ltd.
Montgomerie & Co., Ltd.
Oppenheimer, Son & Co., Ltd.
Paine & Co., Ltd.
Southall Bros. & Barclay, Ltd.
Tolkien, C., & Co.
Woolley, Jas., Sons & Co., Ltd.
Wright, Layman & Umney

MEASURES
Beatson & Co.
Bush, H. W., & Co., Ltd.

MEAT EXTRACTS
Armour & Co., Ltd.
Brand & Co., Ltd.
Buvo, Ltd.

MERCURIALS
Howards & Sons, Ltd.
May & Baker, Ltd.
Merck, E.
Tyrer, T., & Co., Ltd.

METEOROLOGICAL SETS
Darton, F., & Co.

METHYLATED SPIRIT
Burrough, J., Ltd.
Preston's Liverpool Distillery
Randall & Son, Ltd.

MILK APPARATUS
Zimmermann, C., & Co.

MILK SUGAR
Zimmermann, C., & Co.

MINERAL WATERS AND SALTS
Apollinaris Co., Ltd.
British Drug Houses, Ltd.
Findlater & Co., Ltd.
Hughes, E. Griffiths
Ingram & Royle, Ltd.
Vichy (State Springs)

MIRRORS, TOILET
Sangers

MOTOR GOGGLES
Darton, F., & Co.

NAPHTHAS
Burt, Boulton & Haywood

OILS, ESSENTIAL
Allen, Stafford, & Sons, Ltd.
Alliance Drug & Chem. Co.
Bush, W. J., & Co., Ltd.
Chiris, Antoine
Evans Sons Lesoher & Webb, Ltd.
Horner & Sons
Jakson. J., & Co.
Lantier Fils
Lhermine & Cie
London Essence Co.
Mühlethaler, Th., Ltd.
Pasquale, S. F. de, & Fratelli
Poppelrenter, W.
Ransom, W., & Son
Scheller, Emil, & Co.
Schimmel & Co.
Sohmoller & Bompard
Seymour, J.
Spencer, J., Son & Co.
Stevenson & Howell, Ltd.
Todd, A. M., Co.
Whittaker, Arthur
Wright, Layman & Umney
Zimmermann, A. & M.

OILS, FATTY, ETC.
Allen, Stafford, & Sons, Ltd.
Price's Patent Candle Co.
Schliemann's Oil & Ceresine Co.
Smith, B. A., & Co.

OILS, MINERAL
Carmichael, F. J., & Co.
Price's Patent Candle Co.

OINTMENTS
Blackie, R.
Chemist's Co-operative Wholesale
Oldfield Pattinson & Co.

OPTICAL GOODS
Botwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Nitsche & Günther
Raphael's, Ltd.

OTTO OF ROSE
Bontoheff & Kidoff
Reitmeyer & Co. (synthetic)
Scheller, Emil & Co.
Seraphimoff, S., & Co.
Shipkoff & Co.

OPTICAL INSTRUCTION
British Optical Institute

ORANGE WINE
Melrose-Drover Co., Ltd.

PACKED GOODS
(*See* Wholesale)

PALATINOIDS
Oppenheimer, Son & Co.

PAPER TUBES
O'Neill, S., & Sons, Ltd.

PASTILLES
Allen & Hanbnrys, Ltd.
Asche, C. F., & Co.
Burroughs Wellcome & Co.
Denoual, J., & Co.
Epps, James, & Co.
Evans Sons Lescher & Webb
Meggeson & Co., Ltd.
Warrick Bros.

PATENT AGENT
Barker, R. W.

PERFUMES
Allen & Hanbnrys, Ltd.
Barclay & Sons, Ltd.
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, T., & Co.
Chuit, Naef & Co.
Erasmio Co., Ltd.
Evans Sons Lescher & Webb,Ltd.
Hewlett, C. J., & Son
Hovenden, R., & Sons, Ltd.
Lesool Perfnmery Co.
McCracken, J. & R.
Maw, S., Son & Sons
Morison, G. H., & Co., Ltd.
Newbery, F., & Sons, Ltd.
Qneloh, H. C., & Co.
Southall Bros. & Barclay
Spencer, J., Son & Co.
To-Kalon Mnfg. Co., Ltd.
Warrick Bros.
West, T., & Son

PERFUME MATERIALS
Bontoheff & Kidoff
Bush, W. J., & Co., Ltd.
Chiris, Antoine
Compagnie Morana
Lautier Fils
Mühlethaler, Th., Ltd.
Murray, O., & Co., Ltd.
Scheller Emil & Co.
Schimmel & Co.
Shipkoff & Co.
Spencer, J., Son & Co.
Zimmermann, C., & Co.

PESSARIES
Burge, Warren & Ridgley
Rendell, W. J.

PETROLEUM EMULSION
British Drng Honses, Ltd.

PETROLEUM JELLY
Carmichael, F. J., & Co.
Chesebrongh Mfg. Co.
Schliemann's Oil & Ceresine Co.

PHOTO. CHEMICALS
Boehringer, C. F., & Soehne
Burronghs Wellcome & Co.
Merok, E.

PHOTO. ENLARGERS, PRINTERS, &c.
Express Developing Co.
Halifax Photographio Co.

PHOTO. GOODS
Barclay & Sons, Ltd.
Darton, F., & Co.
Evans Sons Loscher & Webb
Halifax Photographio Co.
Ilford, Ltd.
Lennon, Ltd.
May, Roberts & Co.
Newbery, F., & Sons, Ltd.

PILL MAKERS
Allen & Hanbnrys, Ltd.
Asche, C. F., & Co.
Bishop, Alfred, Ltd.
British Drug Honses, Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Evans Sons Lescher & Webb,Ltd.
Hewlett, C. J., & Son
Howards & Sons, Ltd.
Lloyd, T. Howard, & Co.
McKesson & Robbins
Parke, Davis & Co.
Standard Tablet & Pill Co.
Wand Mfg. Co.
Woolley, J., Sons & Co., Ltd.

PRINTERS
Dudley & Co.
Ford, Shapland & Co.
Harrison & Waide
Parkes, John, & Co.
Smith, W. H., & Son
Townsend, J., & Sons

PLASTERS
Allcock Mnfg. Co.
Berliner, Arthur
Beiersdorf, P., & Co.
Dalmas A. de St., & Co.
Leslies, Ltd.
Maw, S., Son & Sons
Solport Bros.

POLISHES (VARIOUS)
Bradley & Bourdas
Judson, Daniel, & Son
Oakey, J., & Son, Ltd.

POSTERS
Ford, Shapland & Co.

PROPRIETARY ARTICLES
Anglo-American Drug Co.
Ashton & Parsons, Ltd.
Barclay & Sons, Ltd.
Bayer Co., Ltd.
Beecham, T.
Beiersdorf, P., & Co.
Box, W. H.
British Drug Honses, Ltd.
Burgess, E.
Capsuloids (1909), Ltd.
Chameleon Oil Co., Ltd.
Christy, T., & Co.
Coleman & Co., Ltd.
Congreve, G. T.
Conoid Co.
Cox, A. H., & Co., Ltd.
Curry, Henry
Daggett & Ramsdell
Daisy, Ltd.
Danysz Virus, Ltd.
Da Silva & Co.
Davenport, J. T., Ltd.
Day & Sons (Crewe), Ltd.
Denoual, J., & Co.
Ecsolent Compounds, Ltd.
Edwards, W., & Son
Evans Sons Lescher & Webb,Ltd
Faulding, F. H., & Co.
Fellows' Syrup
Fennings, Alfred
Ferris & Co.
Fulford, C. E., Ltd.
Goodall, Backhouse & Co.
Gordon, Murray & Co., Ltd.
Guy's Tonic Co.
Harvey & Co. (Dublin), Ltd.
Henry, T. & W.
Hovenden, R., & Sons, Ltd.
Hughes, E. Griffiths
Ichthyol Co.
International Chemical Co.
Iron-Ox Rem. Co., Ltd.
Kay Bros., Ltd.
Kutnow, S., & Co., Ltd.
Lalor's, Dr., Phosphodyne
Lambert Pharmacal Co.
Lofthouse & Saltmer
Lorimer & Co., Ltd.
Martindale, W.
May, Roberts & Co.
Menley & James, Ltd.
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Owbridge, W. T., Ltd.
Pedezy Co.
Phillips, Chas H., Chem. Co.
Quinine Bitters Mnfg. Co., Ltd.
Reitmeyer & Co.
Resinol Chemical Co.
Sangers'
Schimmel & Co.
Scott & Bowne, Ltd.
Squire & Sons
Standard Tablet & Pill Co.
Stedman's Teething Powders
Thermogene Co., Ltd.
Thompson & Capper
Voss & Co.
Walker & Son
Wilcox, Jozeau & Co.
Zimmermann, A. & M.
Zotos, Ltd.
(*See also* Dentifrices and Toilet Articles)

PULVELLÆ
Warrick Bros.

PULVERETTES
Oppenheimer, Son & Co., Ltd.

PUMPS
Berkefeld Filter Co., Ltd.

QUININE AND SALTS
Boehringer, C. F., & Soehne
Carmichael, F. J., & Co.
Howards & Sons, Ltd.
Pointet & Girard

RAPE OILS
Hull Oil Mnfg. Co.

RAZORS
Auto-Strop Safety Razor Co.
Hovenden, R., & Sons, Ltd.
International Distributing Co

RESINS AND RESINOIDS
Allen, S., & Sons, Ltd.
Allen & Hanbnrys, Ltd.
Morson, T., & Son
Ransom, W., & Son
Smith, T. H., Ltd.

RENNET
Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.

RESPIRATORS
Zimmer & Co.

RUBBER GOODS
Burge, Warren & Ridgley, Ltd.
Davol Rubber Co.
Dunlop Rubber Co., Ltd.
Galen Mfg. Co.
Haywood, J. H.
Hovenden, R., & Sons, Ltd.
Hutchinson Co.
Maw, S., Son & Sons
May, Roberts & Co.
Warne, W., & Co., Ltd.

SACCHARIN
Saccharin Corporation, Ltd.

SALICIN
Macfarlan, J. F., & Co.
Smith, T. & H., Ltd.

SAMPLE CASES
Keane, Thomas

SANTONIN
Smith, B. A., & Co.

SAPONIN
Field, C. W.
Sthamer, Dr. R.

SAUCES
Goodall, Backhouse & Co.

SCALE PREPARATIONS
Morson, T., & Son

SCALES, WEIGHING
Maw, S., Son & Sons
Parnall & Sons, Ltd.
Southall Bros. & Barclay, Ltd.

SEA SALT
Tidman & Son, Ltd.

SEA-SICKNESS REMEDY
Zotos, Ltd.

SELTZOGENES
Aerators, Ltd.

SERUMS AND ANTITOXINS
Allen & Hanbnrys, Ltd.
American Animal Therapy Co.
Evans Sons Lescher & Webb,Ltd.
Parke, Davis & Co.
Schimmel & Co.
Wilcox, Jozeau & Co.

SHARES
McAdam & Tucknisa

SHEEP-DIPS
Burt, Boulton & Haywood
Sanitas Co., Ltd.
Tomlinson & Hayward, Ltd.

SHOP-FITTING
Ayrton-Graham, Ltd.
Bowling & Son
Evans Sons Lescher & Webb,Ltd.
Josephs, Philip, & Sons, Ltd.
Maw, S., Son & Sons
Mills, H.
Parnall & Sons, Ltd.
Rudduck & Co.
Sangers'
Southall Bros. & Barclay, Ltd.

SOAPS
Allen & Hanburys, Ltd.
Armour & Co., Ltd.
Bell (John), Hills & Lucas, Ltd.
Bronnley, H., & Co., Ltd.
Chesebrough Mfg. Co.
Cook, E., & Co. Ltd.
Erasmio Co., Ltd.
Evans Sons Lescher & Webb,Ltd
Hull Oil Mfg. Co., Ltd.
International Distributing Co.
Lescol Perfumery Co.
Oakley, J., & Son, Ltd.
Pears, A. & F., Ltd.
Peat Products (Sphagnol), Ltd.
Price's Patent Candle Co.
Shaw, Henry, & Co.
Wright, Layman & Umney

SODA FOUNTAINS
British Automatio Aerators, Ltd.

SOAP PLANT
Forshaw, E., & Son, Ltd.

SOAP MATERIALS
Armour & Co., Ltd.
Chiris, Antoine

SOAPS, MEDICATED
Armour & Co., Ltd.
Bronnley, H., & Co., Ltd.
Calvert, F. C., & Co.
Lambert Pharmacal Co.
Resinol Chemical Co.
Wright, Layman & Umney

SODIUM BICARBONATE
Brunner, Mond & Co., Ltd.
Howards & Sons, Ltd.
Mumford, G. S.

SOIL INSECTICIDE.
Vaporite-Strawson Co., Ltd.

SOYA OIL
Hull Oil Mnfg. Co.

SPARKLETS
Aerators, Ltd.

SPECTACLES
Botwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Günther
Raphael's, Ltd.

SPHYGMOMETERS
Hicks, J. J.

SPIRIT OF WINE
Burrough, J., Ltd.
Preston's Liverpool Distillery

SPITTING-FLASKS
Maw, S., Son & Sons

SPONGE BAGS
Maw, S., Son & Sons
Schutze, F., & Co.
Toogood, W., Ltd.

SPONGES
Interntl. Sponge Importers
Kent, G. B., & Sons, Ltd.
Maw, S., Son & Sons
Sangers'

SPONGIO-PILINE
Whitehead, R. R., & Bros.

SPRAYS
Burge, Warren & Ridgley, Ltd.
Davol Rubber Co.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
Parke, Davis & Co.
Reuter, R. J.

STARCH
Mumford, G. S., & Sons

STOPPERS
Fletcher, Fletcher & Co.
Stipendum Stopper Co.

SUPPOSITORIES
Cox, Arthur H., & Co.
Peat Products (Sphagnol), Ltd.

SURGICAL APPLIANCES
Allen & Hanburys, Ltd.
Bailey, W. H., & Son
Burroughs Wellcome & Co.
Haywood, J. & H., Ltd.
Hutchinson Co.
Maw, S., Son & Sons
Quelch, H. C., & Co.
Wood, Vincent
Warne, W., & Co., Ltd.

SURGICAL DRESSINGS
Beiersdorf, P., & Co.
Berliner, Arthur
Burroughs Wellcome & Co.
Bush, H. W., & Co., Ltd.
Dalmas, A. de St., & Co.
Galen Mfg. Co., Ltd.
Gimber, W., & Son
Haynes, G., & Co.
Leslies, Ltd.
Liverpool Lint Co.
Macfarlan, J. F., & Co.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newsome, C.
Robinson & Sons, Ltd.
Southall Bros. & Barclay, Ltd.
Thermogene Co., Ltd.
Vernon & Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co., Ltd.

SYNTHETIC PERFUMES
Boehringer, C. F., & Soehne
Bush, W. J., & Co., Ltd.
Chuit, Naef & Co.
Compagnie Morana
Murray, O., & Co., Ltd.
Reitmeyer & Co.

STILLS, ESSENTIAL OIL
Bennett, Sons, & Shears, Ltd.
SYNTHETIC REMEDIES
Boehringer, C. F., & Soehne
Boehringer, C. H., Sohn
Hoffmann-La Roche, Ltd.
Reitmeyer & Co
Wolfensberger, J. H., & Co.
SYPHONS,
Aerators, Ltd.
Barnett & Foster
Breffit, E., & Co., Ltd.
Camwal, Ltd.
Idris & Co., Ltd.
SYRINGE CASES
Estes, E. B., & Sons
SYRUPS, MEDICINAL
Chemist's Co-operative Wholesale
Fellows' Med. Mfg. Co.
Fletcher, Fletcher & Co.
Lloyd, T. H., & Co., Ltd.
Squire & Sons
TABLETS, COMPRESSED
Allen & Hanbury's, Ltd.
Asche, C. F., & Co.
Bishop, Alfred, Ltd.
British Drug Houses, Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Duncan, Flockhart & Co.
Evans, Sons Lescher & Webb,Ltd
Howards & Sons, Ltd.
Jackson, E. E.
Lloyd, T. Howard, & Co.
Parke, Davis & Co.
Potter & Clarke
Standard Tablet & Pill Co.
Thompson & Capper
Wand Manufacturing Co.
Wander, A.
TABLOID PRODUCTS
Burroughs Welcome & Co.
TARTARIC ACID
British Drug Houses, Ltd.
Boehringer C. H., Sohn
O'Neill, Samuel, & Sons, Ltd.
TIN BOXMAKERS
Goodall, Backhouse & Co.
Huntley, Boorne & Stevens
TOILET PAPER
Ford, Shapland & Co.
Newbery, F., & Sons, Ltd.
O'Neill, Samuel, & Sons, Ltd.
Townsend J. & Sons
TELEPHONE CAPS
Jeyes Sanitary Compound Co.
TELESCOPES
Darton, F., & Co.
TOBACCO
"Pinoza" Depot
Singleton & Cole, Ltd.
TOFFEE
Meggeson & Co., Ltd.
TOILET ARTICLES
Allen & Hanbury's, Ltd.
Armour & Co., Ltd.
Auto-Strop Safety Razor Co.
Barnett & Co.
Beetham, M., & Son
Berliner, Arthur
Blackie, R.
Bronnley, H., & Co., Ltd.
Burroughs Wellcome & Co.
Chesebrough Mfg. Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
Daggett & Ramsdell
Daisy, Ltd.
Edwards' Harlene Co.
Egglossa Mnfg. Co.
Erasmic Co., Ltd.
Eucryl, Ltd.
Fulford, C. E., Ltd.
Hall & Ruckel
Harker, Stagg & Morgan
Hovenden, R., & Sons, Ltd.
John Strange Winter
Lloyd, A., & Co.
Lloyd, A. S. (Hovenden)
Lorimer & Co., Ltd.
Morison, G. H., & Co., Ltd.
Mysantal Co.
Newbery, F., & Sons, Ltd.
Ni-Verre Chemical Co.
Odol Chemical Works
Papier Poudré, Ltd.
Parke, Davis & Co.
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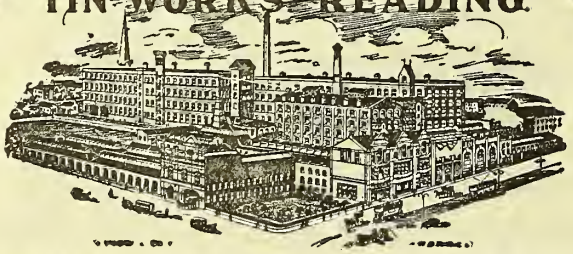
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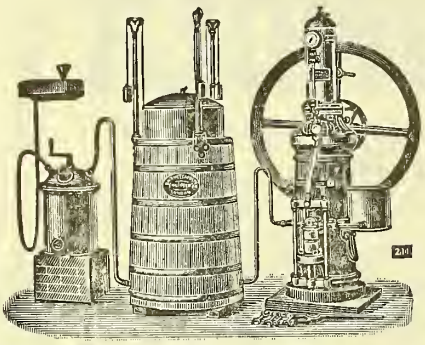
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This type is fast superseding all other makes, and is used in the leading manufactories of the world.

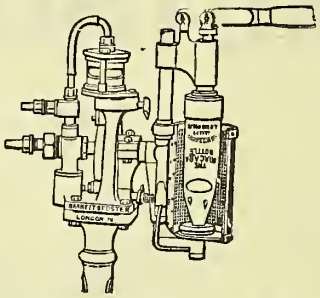
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Are all Fitted for Hand and Power.

NOTE.—We *include* all necessary Connecting Pipes free *without extra charge*, so that the machinery is ready for work upon arrival.

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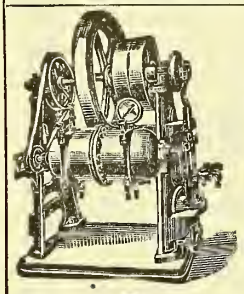
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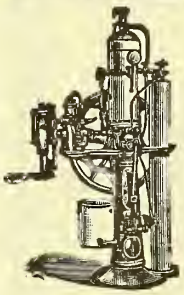
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Complete with Gas-making Apparatus, all pipings and connections included.

No. 0 size producing 2,500 dozen in 10 hours £165 0 0
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THE "COMPACT."

For Use with Compressed Carbonic Acid Gas.

In use by the leading Chemists, Hotels, Hospitals, and Public Institutions throughout the United Kingdom.

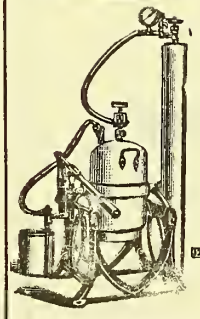
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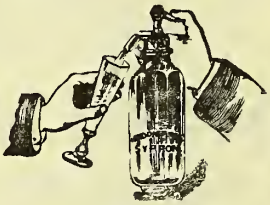


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GLIDINE In Tins at **2/9** and **5/-** each.

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A deodorant liquid giving immediate results. A new and **ORIGINAL** preparation that sells at sight.
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(Guaranteed absolutely pure)

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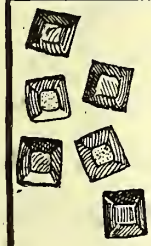
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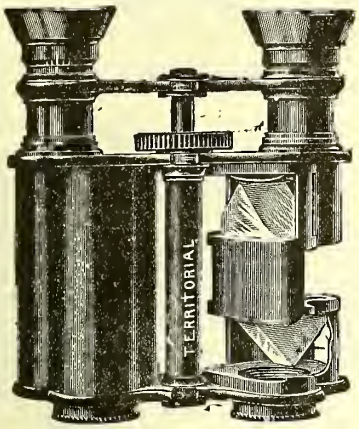
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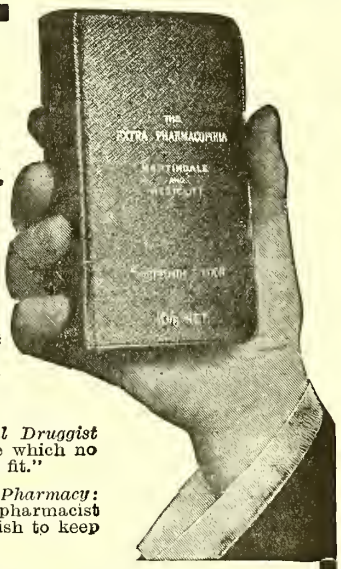
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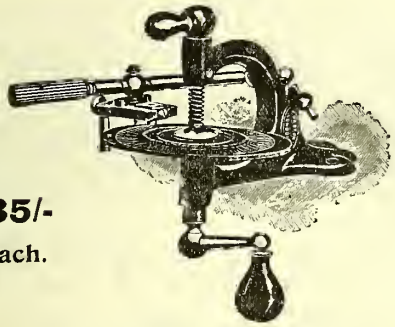
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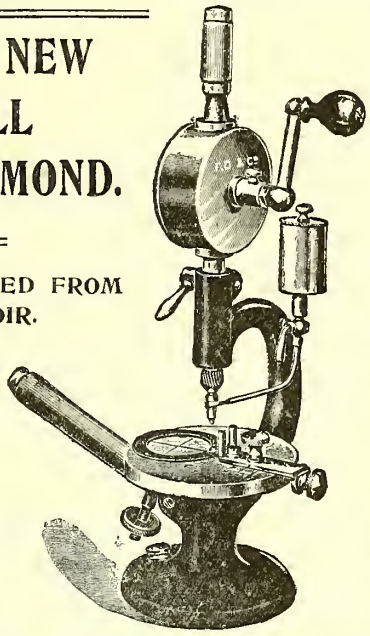


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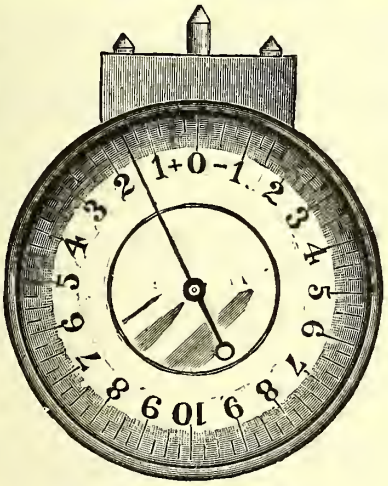


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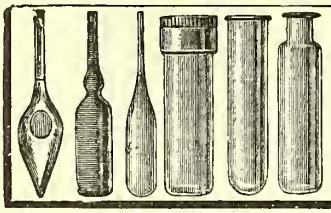
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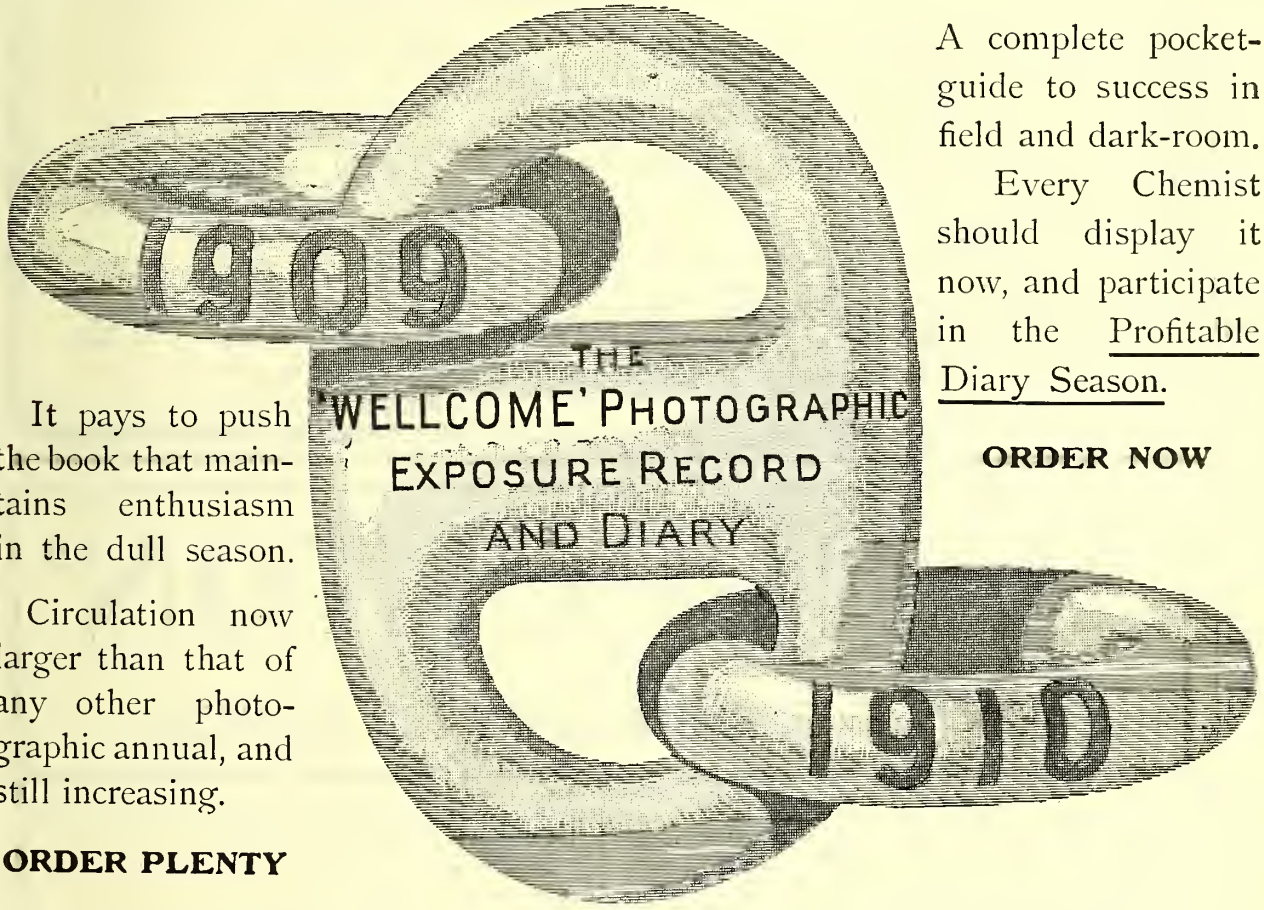


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There is advertising—and advertising. Few business men nowadays (and certainly not the most successful) go in for cheap publicity. They have learnt that cheap advertising, like everything else cheap, is very dear in the long run. Publicity in "The Chemist and Druggist" has never been cheap, but it is very far from dear, for the advertiser always gets the best value for his money. That is why our Special Issues increase in importance year by year, and the Insets included are more attractive and better business-producers each time. The twelve thousand copies of the Winter Issue of "The Chemist and Druggist," to be published on January 29th, 1910, will be read by actual buyers of the goods advertised, and all connected with pharmacy, chemical industry and the drug trade know it. Have you secured advertising space? Do you want advice about the production of an Inset that will bring business? You will obtain many useful hints by addressing

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THE BEST

ATTENTION

The Publisher, 42 Cannon St., London, E.C.

Summary of this Issue.

The more notable items only are dealt with.

Articles and Communications.

Correspondents express varied views as to the need of salt in human diet (p. 63).

Further observations on the German spurious apomorphine are noted on p. 51. It appears to be apo-tetra-morphine.

"Observations and Reflections" deal with speculation by retailers in quinine and other drugs, diascordium, and our *Diary* dictionary of synonyms and trade-names (p. 47).

Some observations in regard to pills indicate that the consumption of "private" pills is increasing in the British Isles, while that of proprietary pills is stationary or decreasing (p. 48).

An English chemist who has gone out to Australia sends us a letter about the School of Pharmacy at Brisbane, to which we append extracts from a communication received from Mr. Cowley, the principal (p. 62).

This week's Retrospect shows that views on pharmaceutical education were much the same fifty years ago as they are now, the distinction between the practising pharmacist and the retail druggist being recognised (p. 64).

Competition among company chemists is so keen that a chairman of one of the companies complains. This has suggested an inquiry, the results of which show that profits have diminished. See the article on p. 49.

Over thirty Parliamentary candidates are connected with the chemical and drug trades, pharmacy, or medicine. The Liberals among them outnumber the Unionists by about four to one. Brief biographies and portraits of them begin on p. 53.

The Week's News.

Dr. Ludwig Mond has bequeathed 100,000*l.* for the encouragement of scientific research (p. 34).

The new Council of the P.A.T.A. has been elected, and includes an Irish member—Dr. A. J. Barnes, of Dublin (p. 34).

Mr. Michael Carteighe resumed his attendance at the meeting of the Pharmaceutical Council this week. The business done was of a routine nature (p. 44).

The mineral and chemical industries were the subject discussed at the Society of Chemical Industry meeting in London on Monday, which is reported on p. 45.

The Drug-trade Appeal Fund is to undertake the appeal by the defendant in the case *re* firm-names on poison-labels—Pharmaceutical Society *v.* Edwards (p. 34).

A South London doctor, in dispensing a mixture for a patient, used liq. strychninæ instead of aq. chloroformi. The patient took a dose and died (p. 35 and p. 50).

Germany's peculiar regulations as regards stocking medicinal tablets is giving rise to some trouble. The 1910 dispensing tariff is also the subject of a note on p. 36.

Mr. Octavius Conder, of Norwich, died on Wednesday morning. He was formerly a pharmaceutical examiner in botany, and subsequently a member of the Pharmaceutical Council (p. 42).

An interesting case with reference to a rebate clause in a chemical contract came before the City of London Judge this week, the point being whether the buyer was entitled to rebate *pro rata* when the seller cancelled the contract before completion. On the terms the Judge said, "No" (p. 29).

Trade and Market Matters.

The current situation on the Kazanlik otto of rose market is indicated by a correspondent on p. 61.

The application for an injunction against Messrs. Ch. & A. Böhringer, of Colombo, for alleged infringement of a latex-coagulation patent, has been dismissed (p. 61).

The latest developments in the Java cinchona situation are referred to editorially on p. 49. The attitude of the Bandong Quinine Factory to the proposed bark syndicate is said to be more favourable.

Business has opened quietly on the markets, but the tone is none the less confident. The price-changes include an advance in German refined camphor, copper sulphate, cocoa-butter, juniper-berry oil, and linseed oil, while methylated ethers, terebene, atropine, ehrysarobin, sandalwood oil, and rosin are all in buyers' favour. Bromide-makers now offer to book forward contracts to April 30. Glycerin is very firm (p 59).

B

English and Welsh News.

When sending Newspapers containing Trade news to the Editor please mark the items.

Brevities.

The Rotherham analyst examined one sample each of Friar's balsam and glycerin, and found them satisfactory.

The "London Gazette," of January 4, reprints the list of Royal Warrant Holders. The warrants give holders authority to use the Royal Arms, but do not carry the right to fly the Royal Standard.

The International Trades Exhibition, Ltd., Broad Street House, London, E.C., are organising a "Manchester Industrial Exhibition," which will be held in the Manchester Exhibition Buildings from May 12 to June 25 inclusive. The promoters state that this is the first industrial exhibition held in Manchester for over twenty-two years.

A statement having been made by a Parliamentary candidate that a firm of British glass-bottle manufacturers had to close down owing to Messrs. Allen & Hanburys, Ltd., transferring orders for feeding-bottles to a German firm, the firm have informed a correspondent that "they know of no English firm having had to close in the manner suggested, and that three English houses have been for many years, and are now, making their bottles."

The Cardiff Hairdressers' Association has discussed the question of foul shaving, certain allegations being current which, they think, arose from an expression by a chemist in the district whom a person had consulted. Several members referred to the tendency of chemists to jump to the conclusion that the barber is responsible for any outbreak on a man's face. It was said to be a great hardship that barbers should be thus calumniated. It was suggested that proceedings should be instituted for slander, or defamation of character, against any chemist who should refer to barbers in this way.

Drug Trade Appeal Fund.

A meeting of the trustees of the above was held at 111 Temple Chambers, E.C., on January 5, there being present Messrs. Charles Umney (Chairman), Walter Hills (Treasurer), C. J. G. Bunker, Michael Carteighe, G. T. W. Newsholme, and the Secretary (Mr. William Johnston). Mr. Bunker, who is a member of the Council of the Proprietary Articles Trade Association, and a director of the Chemists' Defence Association, was co-opted a trustee in room of Mr. A. C. Wootton, deceased. It was unanimously resolved that an appeal be undertaken in the case, "Pharmaceutical Society *v.* Edwards."

Bequests by Dr. Ludwig Mond.

Subject to the life interest of his wife, Dr. Ludwig Mond bequeathed to the Royal Society of London 50,000*l.*, to be employed in the endowment of research in natural science, particularly, but not exclusively, in chemistry and physics, and to the University of Heidelberg 50,000*l.* to be employed for similar objects. He bequeathed three sums of 20,000*l.* each to (1) the Munich Academy for the promotion of the arts of sculpture and painting, (2) to trustees as a fund for providing pensions or occasional pecuniary assistance to aged or disabled workmen of Brunner, Mond & Co., Ltd., and (3) to the municipal authorities of his native town, Cassel, Germany, to be applied in the same way as the gift of 100,000 marks which he paid to them during his lifetime. In a codicil to his will Dr. Mond bequeathed to the National Gallery, subject to the life interest of his wife, and on certain conditions as to housing and exhibition, fifty-six pictures from his collection of Italian works of art.

Sunday Letter Delivery by Telephone in London.

The Postmaster-General announces that a combination of postal and telephone services will be introduced in London on January 8 enabling a country resident to send a message by post on Saturday for delivery to a telephone subscriber on Sunday. The message, together with the name and telephone number of the addressee and name and address of the sender, must be written on a sheet of paper and posted in an envelope addressed to the Central Telegraph Office, London, E.C., and marked conspicuously, "For Telephone Delivery on Sunday." A broad perpendicular line must be drawn across the centre of each side of the envelope. The telephone letter must be posted in time to catch the night mail to London. The charges are (1) the ordinary postage in stamps affixed to the envelope, and (2) 3*d.* for a message not exceeding thirty words and 3*d.* for each additional thirty words or portion thereof, the fee to be paid in stamps affixed to the sheet bearing the message. Messages to several subscribers may be sent in the same envelope, but a separate message fee must be paid in respect to each message so despatched. The sender may note on the message the approximate time at which it should be telephoned on the Sunday; otherwise it will be telephoned at about 8.30 A.M. If subscriber's attention cannot be gained it will be telephoned on Monday with a statement as to the attempts made to deliver it on Sunday.

Proprietary Articles Trade Association.

The annual election to the Council of ten members of each of the three sections of the P.A.T.A. has just taken place, with the result that the following thirty have been declared duly elected to serve for 1910:

Manufacturers.

Allen & Hanburys, Ltd., Bethnal Green, E.
Beetham & Son, chemists, Cheltenham.
J. Grossmith, Son & Co., Newgate Street, E.C.
S. Kutnow & Co., Ltd., 41 Farringdon Road, E.C.
W. Lambert & Co., 258 Euston Road, N.W.
Newton, Chambers & Co., Thorncliffe, Sheffield.
Thos. Powell, Ltd., 1 Albion Place, Blackfriars Bridge, S.E.
Scott & Bowne, Ltd., 10 Stonecutter Street, E.C.
Sanitas Co., Ltd., Locksley Street, Limehouse, E.
J. C. Umney (Wright, Layman & Umney, Ltd.), 48 Southwark Street, S.E.

Wholesalers.

Barclay & Sons, Ltd., 95 Farringdon Street, E.C.
G. H. Burroughs (John Thompson, Ltd.), Liverpool.
W. Edwards & Son, 157 Queen Victoria Street, E.C.
Evans, Gadd & Co., Ltd., Fore Street, Exeter.
Hirst, Brooke & Hirst, Ltd., Leeds.
May, Roberts & Co., 9 Clerkenwell Road, E.C.
J. McCaig (Evans Sons Lescher & Webb, Ltd.), Liverpool.
F. Newbery & Sons, Ltd., 27 Charterhouse Square, E.C.
Sangers, 258 Euston Road, N.W.
James Woolley, Sons & Co., Ltd., Manchester.

Retailers.

J. G. Atkinson, 25 Westow Hill, Upper Norwood, S.E.
A. J. Barnes, 1 Charlemont Street, Dublin.
W. R. Barnes, 10 Terrace Road, Plaistow, E.
C. J. G. Bunker, York Street, Twickenham.
R. Feaver Clarke, 21 High Street, Gravesend.
H. W. Colley, 253 Cleethorpes Road, Grimsby.
S. N. Pickard, Ossett, Yorks.
G. P. Pond, 68 Fleet Street, E.C.
P. F. Rowsell, F.C.S., 74 High Street, Exeter.
J. W. Sutherland, 127 Buchanan Street, Glasgow.

There were fifteen candidates for the Manufacturers' Section, and eleven each for the other two. One firm declined to serve on the Council for the Wholesale Section, and one of the old retail members, Mr. Grayson, of Moorgate Street, E.C., could not spare the time during the present year. It is hoped, now that Ireland is directly represented on the Council, that there will be a large addition to the Irish membership.

Income-tax.

Messrs. Shuker & Reed, Ltd., chemists, Launceston, in a letter to the "Cornish and Devon Post," recapitulate their experiences of the past three years with the Income-tax Commissioners. The two partners claimed to be assessed at the lower rate as earned income since their profits were equally divided. They agreed to pay 1*s.* rate for the year 1907-8 on the understanding that their case was not prejudiced thereby, as the local surveyor said he had no power to transfer the assessment to the lower schedule. The following year the firm was again charged on the 1*s.* scale, although the Commissioners decided that the income was earned. Also another demand was made under Schedule E, making a total claim of 1*s.* 9*d.* in the pound. A formal appeal was made against Schedule E, but the claim was upheld and payment made; but payment of the 1*s.* scale of Schedule D declined, and a threat was made of putting

the bailiffs in possession. In the meantime, by the aid of Mr. Mildmay, M.P., the case was inquired into at headquarters, and as a result of several journeys to London by the heads of departments it was decided that the firm are to be assessed under Schedule E—*i.e.*, what they claimed three years ago. The letter concludes: "We think the decision throws a lurid light on the principle of being governed by officialdom."

Birmingham Notes.

Mr. Birt, pharmacist and manager of one of Boots' establishments in Birmingham, has been promoted to Bromsgrove.

Mr. Frank Shaw, King's Heath, late on the travelling staff of Messrs. Wyleys, Ltd., Coventry, is now representing Messrs. C. J. Hewlett & Son, Ltd., London, in the Midland Counties.

Insurances should be looked up at this season. A brother chip has just discovered that owing to an oversight his premises have not been insured during the past twelve months.

The "Birmingham Weekly Post" says that the chemists have had "quite a rush this Christmas for pick-me-ups after the Christmas festivities. The wretched weather had something to do with the abnormal demand; many people stayed indoors and passed the time in attentions to the inner man."

A well-known pharmacist's young assistant on holiday bent found a sovereign and a shilling in his peregrinations. Further on he met a lady apparently distressed and looking on the ground eagerly as she walked. He asked her if she had lost anything. She said a sovereign and a shilling, and he handed them to her. Without thanks she asked him for the sixpence as well which she said she had lost also. He had not found that and suggested a look in the purse she carried, and it was there.

What are the local brotherhood doing in the matter of coming in contact with the prospective members of Parliament? The local Association had a council-meeting a few days ago, but it did not leak out whether this was on the agenda-paper. There are several very prominent politicians in the local ranks of pharmacy, such as Messrs. Freeman, Brosser, Barlow, and Featherstone, not forgetting Mr. Alfred Southall and Sir Thomas Barclay. Mr. Alfred Bird, candidate for Wednesbury, can be easily approached, seeing that he is well acquainted with the needs of the pharmacist.

Contracts.

Wisbech Guardians.—Mr. M. Hill, chemist and druggist, Wisbech, for antiseptics.

East Preston Guardians.—Mr. J. H. Longman, Ph.C., Littlehampton, for quinine, cod-liver oil, lint, etc.

Stanley (Yorks) Urban Council.—Mr. B. Atha for carbolic disinfectant-powder in 1-lb. packets at 18*s.* per gross, and in bags at 5*l.* per ton; Newton, Chambers, & Co. for 1zal liquid disinfectant at 3*s.* 6*d.* per gal.

Salford Town Council.—Tennants & Co. for the supply during the ensuing twelve months of 1,800 tons of sulphuric acid at 39*s.* per ton; Hough, Hoseason & Co., Pendleton, for the annual supply of drugs, medical and surgical appliances, serums, etc., required at the Sanatorium.

Sheffield and District Notes.

Mr. T. L. Hollely, chemist and druggist, has been appointed by the Retford Town Council to act with the Mayor in distributing the charities during the year.

At a meeting held in support of the Liberal candidate for the Hallam Parliamentary Division on Monday evening, it was stated that Councillor A. Russell Fox was too ill to attend, and that his condition was such that he would be quite unable to take any further part in the campaign.

At Sheffield Police Court on January 4, Susan Woodhead, a shopkeeper, was fined 10*s.*, including costs, for selling sweet spirit of nitre which contained less than half the minimum proportion of ethyl nitrite and 39.67 per cent. of water in excess of the legitimate proportion.

Mr. Job Preston, chemist and druggist, of Barker's Pool, takes an active part in the work in connection with St. James's Sunday School. Mrs. Preston presented the prizes at the annual gathering on December 29, the number of prize-books exceeding eighty, of which ten were given by Mr. Preston.

Earlier Closing.

Mr. Benson Harries, chemist and druggist, 84 Commercial Road, Newport, Mon., has joined in the local agitation regarding earlier closing. He states: "It is my candid opinion that the main trouble does not rest with the chemists." He succeeded about ten years ago in getting the majority of local chemists to close at 9 P.M. instead of 10 P.M., but only to experience the intolerable nuisance of constant door-thumping and bell-ringing after shop hours. Mr. Harris concludes by hoping that, with the co-operation of the chemists and the public, earlier closing will be secured. Mr. E. Davis, of Commercial Street, expresses his willingness to fall in with any general arrangement among chemists to shorten the hours of assistants, although he would lose considerably on account of his large evening trade. Mr. A. Gratte, chemist and druggist, Commercial Road, is emphatic in the denunciation of the long hours in vogue at present. Other local chemists have written to the local Press on the matter, and on the whole the trend of opinion is in favour of closing not later than 8 P.M.

Doctor's Dispensing Error.

At the Fulham Coroner's Court on January 4, Mr. Luxmoore Drew conducted an inquiry into the death of Amelia Pratt (40), of Fulham, London, S.W., who died from strychnine poisoning on December 31. The deceased's husband, who is a stage manager at a Walham Green music-hall, deposed that Dr. J. Fletcher, of Dawes Road, S.W., had attended his wife during the day. She had complained of internal pains and assigned the cause to some cocoanut she had eaten recently. On witness arriving home on December 31 his wife said to him, "That medicine is burning my inside out. . . . I had only one dose." Death took place ten minutes later. In the meantime Dr. Fletcher had been sent for, and he on arriving washed out deceased's stomach, using a large quantity of water. In reply to witness's query as to why he used all that water if there was nothing to be afraid of, Dr. Fletcher answered, "Oh, we must get that cocoanut out." Dr. Fletcher left the house without making any further remarks, and Dr. Morris Williams was called in. Witness found the medicine bottle had been filled up to the cork. Police-Inspector John Elliott stated that Dr. Fletcher told him that deceased was suffering from ptomaine poisoning. Before seeing Dr. Williams, Dr. Fletcher said that he was prepared to give a death certificate, but after a private consultation with Dr. Williams Dr. Fletcher stated he would not certify the cause of death. Dr. Williams stated he found the medicine tasted bitter and he "diagnosed" that it contained strychnine. Dr. J. Fletcher, after being cautioned by the Coroner, elected to give evidence. He intended to give deceased a mixture containing opium and chloroform water. He was told half an hour afterwards that Mrs. Pratt was in a fit, and on seeing her he said to himself, "This looks like strychnine poisoning." He told the husband that he would try to remove the cocoanut, and it suddenly flashed across his mind that the bottles containing chloroform water and strychnine solution were about the same size. The fatal mixture was here handed to witness, who, after tasting the contents, said, "Yes; I have made a mistake in the bottle." Continuing, Dr. Fletcher said he emptied a good quantity of the "medicine" down the sink and then filled the bottle with water, afterwards putting it on the mantelshelf. He filled the bottle up because he could not take it away, but he thought it dangerous to leave it in the house in its original condition. He realised afterwards that it was not the correct thing to do to partially empty the bottle and then fill it up again. Mr. W. H. Leycester, who appeared for the Medical Defence Union and Dr. Fletcher, asked Dr. Bernard Spilsbury if it would have been impossible, but for Dr. Fletcher's frank admission, for him to say that the woman died from strychnine poisoning.—Dr. Spilsbury: "Yes." The Coroner, in summing up, commented upon the painful nature of the case and the candid manner in which Dr. Fletcher had given his evidence. Mr. Drew called attention to the necessity "for legislation in regard to poison

bottles." The jury returned a verdict of death from misadventure, and asked the Coroner to bring to the notice of the Home Office the facts of the case in order that legislation providing for the use of a distinctive form of bottle for poison might be brought about.

Police-court Charges.

At Dewsbury last week two boys were bound over, under the new Probation Act, for breaking into the premises of Mr. Geo. Walker, chemist and druggist, Northgate, Dewsbury, and stealing goods and money to the value of 7*s.* 3*d.*

At Marylebone Police Court on January 5, Joseph Swanton (27) was bound over in the sum of 10*l.* on a charge of stealing 4*s.* from a shop assistant named Lily Gregory (*C. & D.*, January 1, p. 4). The defence was that prisoner entered the girl's room in mistake for his own.

At the Stratford Police Court on January 3, Annie Stevens, *alias* Rose Gayford, a respectably dressed middle-aged woman, of Boundary Road, East Ham, was charged on a warrant with obtaining 1*l.* 11*s.* 8*d.* by false pretences from Mr. Edward Raynor, described as a chemist, of 164 High Road, Leyton. Mr. C. C. Sharman (for the prosecution) stated that accused tendered on November 22 a cheque for 1*l.* 8*s.* in payment for some goods ordered from Mr. Raynor. The cheque was drawn by a man named Stevens in favour of Annie Stevens. Defendant received 1*l.* 11*s.* 8*d.*, the balance of the cheque, in cash. The prosecutor alleged that the prisoner was Mrs. Gayford, who had an account a few years ago with Bacon, Cobbald & Co., at Felixstowe, now amalgamated with the Capital and Counties Bank. The account had been drawn upon until only 4*s.* was left at the bank. She had victimised fifteen or sixteen tradesmen with cheques from Mrs. Gayford's book, and all the cheques had been dishonoured. The prisoner was remanded, bail being refused.

Scots News.

When sending Newspapers containing Trade news to the Editor please mark the items.

Brevities.

The Oban School Board have accepted the tender of Mr. Samuel Lawrence, chemist, Oban, of 78*l.* 1*s.* 6*d.* for the supply of scientific apparatus and chemicals for the technical department of Oban High School.

With a few exceptions, it is understood that the Christmas trade in Dundee has not come up to expectations. It was notified by advertisement in the local newspapers that "Dundee chemists arranged to close their shops on Saturday, January 1, between the hours of 12 noon and 6 P.M," but few chemists were consulted on the matter, and in consequence some resentment is being expressed against persons who had nothing to do with the announcement.

Glasgow and the West.

Mr. Lilian, herbalist and general drug dealer, has closed his premises at 27 Cowcaddens Street, Glasgow.

Mr. Tulloch, chemist and druggist, has taken over the business of Mr. R. Lochhead, chemist and druggist, Main Street, Newton, Ayr.

Mr. Gault, chemist and druggist, Newton Grange, has sold his business to Mr. James Dixon, chemist and druggist, of Gorebridge.

Mr. W. W. Flett, chemist and druggist, formerly in business on his own account in Woodsland Road, Glasgow, sailed on December 30 for Singapore, to take up an engagement there.

A joint-stock company has been registered as the Scottish Exhibition of National History, Arts, and Industry, Glasgow, 1911, Mr. Andrew Macdonald, manufacturing chemist, 72 Great Clyde Street, Glasgow, being one of the subscribers.

Early on Monday morning, January 3, a fire-sprinkler burst in the premises of Messrs. Cockburn & Co., Ltd., wholesale chemists, Howard Street, Glasgow. The premises were deluged, and the water burst into the adjoining warehouses of Messrs. Munro, wholesale grocers, and Mr. James Christie, wholesale druggist.

Colonial and Foreign News.

The Norwegian Government have adopted stringent precautions in regard to the sale of poisons for the destruction of animals. The purchaser of such a poison has to produce a certificate from the police authorities authorising the purchase and stating the use to which the poison is to be put. The purchaser has to give an assurance to the police that the poison will only be used within the boundaries of Norway.

A Number of Military Pharmacists on the reserve of the German Army will this year be called out for active service. This will affect in the Prussian Army eighteen oberapothekers and eighty unterapothekers who will be called up for forty-two days' duty; in Saxony two oberapothekers for a period of fifty-six and twelve unterapothekers for forty-two days; and in Würtemberg one ober- and six unter-apothekers who will be on duty for six weeks. It is further proposed to create two new staff apothekers of the navy on October 1, 1910, for the new stations of Mürwick and Sonderburg.

German Prescription Tariff.—The publication of the Medicinal Tariff for 1910, according to which all prescriptions must be charged, has demonstrated to apothekers in Germany that the Government is not yet disposed to accede to their request for a fundamental increase in the prescription charges. Such a change would have been highly unpopular, so far as the public are concerned, especially with sick clubs; and at present "economy" is the official battle-cry of Germany. As an innovation, charges for the preparation of ampoules have been introduced; for each empty ampoule up to 5 c.c. content the charge is 10 pfennigs (1¼*d.*); for the filling, closing-up, and sterilising of ampoules 75 pfennigs (9¼*d.*) is to be levied for three or under, and 10 pfennigs for each ampoule over that number. An important concession has, however, been made with regard to the night tax. The charge of an extra sixpence on every prescription presented between 10 P.M. and 6 A.M. has been extended to the time between 9 P.M. and 6 A.M. This is a compromise: apothekers wanted 9 P.M. and 7 A.M.

Town and Country Apprentices.—At the Austrian examinations marking the close of the apprenticeship, it has been noticed for some time that a considerable difference existed in the store of knowledge possessed by the pharmaceutical apprentice brought up in the country compared with the acquirements of his town colleague. Further, a considerable amount of time is lost during the first period of the University education, due to the fact that pharmaceutical students receive their instruction as if they had hitherto gained no fundamental knowledge of the different subjects in question. To obviate this drawback, and particularly with the aim to ensure a certain standard of knowledge for pharmaceutical apprentices, the General Austrian Apotheker Society and the Austrian Pharmaceutical Society collaborated with the Viennese Apotheker Gremium with the object of elaborating a set of text-books specially intended for the instruction of apprentices. These include the following subjects: Chemistry (Ludwig), pharmacognostics (Mitlacher), practical pharmacy (Kremel), botany (Schiffner), physics (Schweidler), and commercial practice (Schigut).

Tablets in Germany.—A correspondent in the "Pharm. Zeit." raises an interesting point in connection with the prohibition to keep in stock compressed tablets or divided powders containing remedies included in the tables B and C of the German Pharmacopœia—*i.e.*, heroic preparations. This apotheker is under the obligation to keep stocked for immediate supply to the military authorities in the event of mobilisation: 150 arecolin tablets of 0.05 gram, 15 atropine tablets of 0.01 gram; 15 cocaine tablets of 0.02 gram; and 30 morphine tablets of 0.05 gram. He asks how is he to comply with this obligation and yet not transgress the pharmacy law? The editor advises him to draw the Minister of War's attention to the matter, and through him to induce the Minister for Medical Affairs, etc., to withdraw this peculiar prohibition: "When military considerations are engaged, all other

objections usually vanish." Another correspondent advises his colleague to purchase a tablet-machine and regards this paragraph as a safeguard for the pharmacist, who ought to make his tablets himself. According to his view, the law requires that the tablets are to be freshly made on being ordered, but nothing is said as regards the time when they are to be fetched; the military authorities have ordered the tablets, but not yet taken them, consequently they should be kept until required.

French News.

(From the "C. & D." Correspondent.)

Congress of Physiotherapy.—The third International Congress of Physiotherapy will be held in Paris from March 29 to April 2 next, and will be presided over by Professor Landouzy, Dean of the Faculty of Medicine here. The various sections of the Congress will include hydrotherapy, thermotherapy, climatotherapy, electrotherapy, and radiotherapy. An exhibition of all articles connected with physiotherapy (mineral waters, instruments, etc.) will be annexed to the Congress, of which M. Vaquez, 27 rue du Général Foy, Paris, is the Secretary.

Centenary of the "Journal de Pharmacie."—The well-known French pharmaceutical publication known as the "Journal de Pharmacie et de Chimie" completed the centennial anniversary of its existence recently. The event was duly celebrated by a dinner given at the Palais d'Orsay Hotel, Paris, by Professor Jungfleisch, President of the Editorial Committee of the Journal, to his colleagues. M. Jungfleisch gave a very interesting account of the first meetings of the founders of the Journal, the minutes of which have been carefully preserved, and he likewise gave his own personal impressions of his first experience in the editing room of the Journal some forty years ago. One of the founders, M. Boullay, was then still alive, and although ninety-three years of age at that time was very active. Professor Bourquelot, who is now the chief editor of the Journal, spoke in most appreciative terms of the services rendered to it by his distinguished predecessors, who include the well-known pharmacien Cadet de Gassicourt, as well as M. Riche, the eminent chemist who was for so long director of the French Mint.

French Tariff Revision.

The following are among the changes which were adopted after discussion in the Chamber of Deputies: *White wax*, raised from 12f. and 8f. to 18f. and 12f. *Egg-yolks, sweetened*, to pay present duty *plus* Excise duty on sugar. *Egg-yolks denaturaised* to be duty-free. *Artificial honey*, raised from 15f. and 10f. to 30f. and 20f. *Artificial honey*, raised to 50f. and 30f. *Spermaceti*, proposed increase withdrawn. *Raw Sponges*, at present paying 35f., to be duty-free. *Prepared sponges*, G.T. raised from 85f. to 100f. *Hard caseine in sheets or mass, unworked*, to be taxed 150f. and 75f. *Hard caseine worked in any way*, to be taxed 225f. and 150f. *Oil seeds*, G.T. raised from 3f. to 4f. 50c. *Volatile oils and essences*, specific duty changed to 5 per cent. *ad val. Synthetic and artificial perfumes*, including *artificial vanilin*, raised from 5 per cent. to 15 per cent. *ad val. Formosa camphor*, reduced from 7f. 50c. and 6f. to 6f. and 4f. *Bay and myrtle leaves*, raised from 100f. to 150f. *Saffron*, changed from 1f. 50c. and 1f. to 15f. and 1f. *Crude alum*, exempted from duty under Minimum Tariff. *Oxide of cobalt*, free, raised to 525f. and 350f. *Tin oxide*, at present, 8f. 50c. and 5f. 15c., exempted from duty. *Litharge* and other *lead oxides*, formerly duty-free, raised to 7f. 95c. and 9f. 30c. *Zinc oxide*, at present 5 per cent. *ad val.*, exempted. *Soda (refined)* classed as follows: Not over 33 per cent. pure carbonate, 2f. 85c. and 1f. 90c. Other, 6f. 15c. and 4f. 10c. *Formaldehyde*, ad val. duty changed to 12f. both tariffs. *Formaldehyde*, more concentrated, changed to 30f. and 20f. *Carbonate of lead*, specially tariffed at 10f. 50c. and 7f. *Ether (pure)*, raised from 30f. to 60f. and 40f. *Collodion*, same change as above. *Sulphate of copper*, reduced from 4f. and 3f. to 3f. and 1f. 50c. *Sulphite of zinc (artificial)*, changed from *ad val.* duty to 3f. 75c. and 2f. 50c. *Crude cocaine*, exempted. Direct products of *coal-tar distilling* exempted. *Secondary products* changed from 20f. and 15f. to 23f. and 15f. *Chemical products with alcohol*, discussion adjourned. *Coal-tar colours*, not specially denominated, in paste, with at least 50 per cent. water, changed from 100f. and 60f. to 100f. and 50f. *Milk-sugar*, formerly free, raised to 38f. and 25f.

[Duties are per 100 kilos. Where both General and Minimum Tariff duties are changed, the first figures are those of the General Tariff.]

Demerara Doings.

(From the "C. & D." Correspondent.)

Ankylostomiasis.—The prevalence of ankylostomiasis in Indian coolie immigrants continues to be alarming. Of 844 coolies ex s.s. *Ganges* recently arrived from Calcutta, 821 were examined, and 580 found to be infected. The treatment consists in giving large doses of beta-naphthol, followed by brisk saline purgatives.

A New Veterinary Ordinance has been passed to restrict veterinary practice to registered persons. Anyone who has been already acting as a veterinary surgeon for a reasonable time is entitled to registration without examination. Two chemists have availed themselves of this privilege—viz., Mr. F. J. Larrony, New Amsterdam, and Mr. W. T. Johnson, Georgetown.

Smart-Dalgleish & Co., Ltd., have (as stated in the *C. & D.*, December 4) paid $100,000 for the business of Messrs. Brodie & Rainer. Less than two years ago Mr. Dalgleish was an assistant to Messrs. Brodie & Rainer. He resigned to start a business of his own, and in about a year had two or three branches. Now his firm practically controls the drug-trade of the Colony.

Poisoning.—A Customs officer at New Amsterdam is alleged to have attempted to commit suicide by taking perchloride of mercury. It is understood that the police have taken proceedings against Messrs. Isaacson & Co. (proprietor, the Hon. C. P. Gaskin), from whom the poison is alleged to have been purchased, because the usual entry with signature in the poison-book was not made.

Contracts.—The following tenders for supply for the Public Service for the year ending December 31, 1910, have been accepted: Oils and paints, Messrs. Sandbach, Parker & Co., and Messrs. Booker Bros.; preparing and dressing materials, Mr. J. B. Sharples; medicines and medical appliances, Messrs. Brodie & Rainer (present contract extended for six months—viz., from January to June 1910).

Dispensaries.—Medical men, and to a certain extent chemists, are loud in their complaints as to the reckless way in which pauper certificates for free medicine from the Government dispensaries have been distributed by the clergy. In some cases these "paupers" are people possessing property. It has been suggested that this privilege which the clergy enjoy shall be transferred to the Poor-law Commissioners. The week before the mail left the number of out-patients at the Government dispensaries was 1,059.

Australasian News.

"The Chemist and Druggist" is regularly supplied by order to all the members of eight Societies of Chemists in Australia and New Zealand.

The Commonwealth.

Tariff Guide.—White dextrin is stated by the Customs Tariff Guide Supplement to be starch flour which has undergone treatment with concentrated acetic acid (acetylation) with the object of forming an acetyl ester with the starch. Dry vegetable gum, said to be a special preparation of gluten suitable for use as a substitute for glue or cheap gelatin for adhesive purposes, is not dry gum in the ordinary commercial sense.

Proprietary Medicines.—The Customs Department informed the "Herald" that the estimated cost of the ingredients used in one box of a certain medicine which is sold at half-a-crown is one-fortieth of a penny. In the House of Representatives Mr. Thomas took advantage of this to ask the Minister of Trade and Customs if his attention had been drawn to this, and if the statement is correct, and if the Minister would inform the House the name of the medicine referred to, so that the public might learn what they are buying. The Minister promised to have inquiries made.

New South Wales.

Mr. Alexander Emslie Durno, recently co-opted as a member of the Council of the Pharmaceutical Society of New South Wales, is a native of Aberdeenshire, and was

apprenticed in 1883 to a good dispensing and retail business in Aberdeen. In 1889 he went to Edinburgh, studied at the Royal Dispensary School of Pharmacy, and passed the Minor examination of the Pharmaceutical Society of Great Britain the same year. He then joined the staff of a company-pharmacy and gained an insight into modern trading principles. During this time he studied for the Major examination, which he passed in 1891. The same year he started for Australia, and secured a position as assistant in Victoria. Afterwards he went to Ipswich (Queensland) to manage a business, now Mr. Allen's. He soon decided to migrate to Sydney, which he did, purchasing the business of the late Mr. Notley B. Pollard, then in Market Street. It has since been transferred to its present situation at 184 Pitt Street. Mr. Durno is registered in Victoria, New South Wales, and Queensland, as well as in Great Britain. He went for a long holiday round the world in 1907, and looked up old friends in Great Britain. His place of business is noted for the attractiveness of the window-dressing; some of his shop windows have been figured in the *C. & D.*

Western Australia.

Opium Prohibition Bill.—The Committee report that this Bill only proposes to deal with the vice of opium-smoking. The provision that the use or possession of chlorodyne or laudanum be made an illegal act unless sanctioned by a permit from the Colonial Secretary is likely to prove a vexatious restriction if passed in its present form—at all events, in places remote from the seat of government. The Committee find that at least 1,200 lb. of opium reaches consumers annually in Western Australia. This represents, at the present rate of duty, about 2,000*l.* annually.

South African News.

(From the "C. & D." Correspondents.)

"The Chemist and Druggist" is regularly supplied by order to all the members of the seven Societies and Associations of Chemists in business in British South Africa.

Cape Colony.

Poisons in Proprietaries.—The Cape Colony Medical Council has decided, upon the motion of Dr. Darley-Hartley, to recommend the Government to put into force Clause 16 of the Medical Act requiring that patent and proprietary medicines containing scheduled poisons should bear a label specifying the poison, also that arsenic and strychnine supplied for farming purposes should be coloured.

Action for Slander.—A case was heard before the Resident Magistrate of Cape Town on December 9, in which Mr. H. R. Peck, chemist, Kloof Street, sued a nurse named Mrs. Tattersall for 20*l.* damages for slander. The case arose out of a supposed purchase by the defendant's servant of ipecacuanha wine, which was alleged to have come from Mr. Peck's pharmacy after business hours. The servant returned with some substance resembling port, which bore a written label "Hypo Wine," but no chemist's name or address. Defendant afterwards came down with the bottle and, in the presence of witnesses, whom Mr. Peck called, made several slanderous statements. Evidence proved that no one was served after hours on the evening in question. Mr. Peck's solicitor stated that they did not press for heavy damages. The Magistrate gave judgment for plaintiff for 2*l.* and costs.

Medicine Stamps continue to be the chief subject of interest to Cape chemists. The promised list of exemptions has not materialised yet, although several inquiries have been made to the authorities for it. The Treasury intend to call a representative meeting of chemists in order to confer with their officials as to the liability of doubtful articles, such as foods, and the Pharmaceutical Society have been asked to send two members to this meeting. In an interview by a local paper with a well-known chemist, whose name does not transpire, but who is evidently connected with the Society, the retail chemists' side of the question is very fairly presented. The article is entitled "Badgered Chemists," and states that the Act of 1909 is supposed to amend the Act of 1908, but is far from being the workable measure chemists hoped for. It is precise and unmistakable in only two particulars—its rate of charges and the swinging scale of penalties for infringement. The inclusion of toilet articles as medicines is strongly condemned, particularly as these articles already pay an import duty of 22 to 25 per cent. The inclusion of the trade-mark as defining a patent and proprietary medicine is regarded as particularly objectionable, and as an instance the article mentions 6*d.* or 1*s.* bottles of "vaseline," which require a 2*d.* stamp. The chemists desired to come into line with the Old Country's method, but the new regulations have gone far beyond these. The hope is expressed that the Union Parliament will completely erase the measure.

Natal.

Messrs. Allen & Hanburys' removal from Cape Town to Durban is commented upon by our Natal correspondent, who remarks that, "Natal having opened up railway communication with Kimberley and Bloemfontein, it is now cheaper to obtain goods from the Natal port than from the Cape."

Petroleum Deposits having been discovered at Clairmont and Springfield, near Durban, and at Umhali, on the north coast, says the "Financial Times," there appears a good prospect of Natal taking its place among oil-producing countries. Development syndicates have been formed, and experimental work is proceeding on the deposits.

Orange River Colony.

The Monthly Meeting of the Medical and Pharmacy Council was held in Bloemfontein on December 10, Dr. Ward (President) in the chair. Drs. Bidwell, De Kock, Johnson, Swift, and Yule, Mr. Redpath (denist), and Mr. Hewitt were also present. An application for registration as a chemist was refused, as the candidate's certificate of examination by the Natal Pharmacy Board was issued prior to 1896. Dr. Bidwell moved that the principal ordinance should be amended in its penal clause, so as to admit of any registered person guilty of an offence being suspended. This was unanimously agreed to. In its present form the only alternative to a reprimand which the clause affords is striking off the register, and there is no provision for restoration. It is not expected that the Government will at present agree to the proposed amendment. The correspondence between the Council and the Government concerning the suggested medical and pharmaceutical conference was dealt with in committee.

Natal Pharmaceutical Society.

A Meeting was held at Mr. G. Stuart Jones's rooms, West Street, Durban, on Thursday, December 2, 1909. There were present Messrs. Elgie (President), Champion, Dunkerton, Edwards, Hamlin, Jones, Charlton, Firth, Gale, Inman, Goodbrand, and Anderson (Secretary).

Communications.—In answer to the resolution passed at the annual meeting with reference to the report of the Natal Pharmacy Board, a letter was read from the Secretary to the Board, stating that the Government, without assigning any reason, had seen fit to withhold a portion of the report.

Pharmacy Board Report.—Mr. Anderson gave a *résumé* of the business transacted at the meeting of the Board held on October 14. He said that in regard to the request of the Pharmaceutical Society that the Board should publish in the trade journals a report of the proceedings of each meeting, it was unanimously agreed to comply with the request. A notice of motion to alter the existing syllabus to that in use by the Transvaal Pharmacy Board was also before the Board, and was agreed to unanimously. It was felt that the present syllabus is very vague, and is no guide for examiner or student. The syllabus in use in the Transvaal furnishes details of the various subjects, and suitable text-books for the guidance of students.

Pharmacy Board Examinations.—Owing to rumours that the final examination is an insufficient test of ability, the President invited Mr. Jones and Mr. Anderson, members of the Pharmacy Board, to give their opinion as to the conduct of the examination. Both attended the last examination, and now expressed the opinion that it was conducted in a very satisfactory manner, and that those who passed it were well qualified to stand behind the dispensing counter, and would be able to dispense any prescription put before them. The

examination, they agreed, is anything but an easy one, and is a thorough test of the ability of the candidates.

THE PRESIDENT'S CAPE VISIT.—Mr. Elgie, who had just returned from a visit to Cape Town, gave a short account of it, which was of great interest. On invitation he attended a meeting of the Cape Pharmaceutical Society. Although he was not there in his official capacity, he carried greetings from the Natal Society, which were warmly reciprocated. He hoped this Society would see its way to equip a similar room to what had been furnished in Cape Town.

ANNUAL SUBSCRIPTION.—The President introduced this subject. He considered that the subscription should be raised to one guinea, in order that the minutes of each meeting should be printed and posted to members of the Society. This will benefit the country members considerably, as the majority are unable to attend the meetings, and therefore know little of what is taking place. There was a short discussion, in which a suggestion was made that assistants should only pay half a guinea, but this was not pressed, and it was agreed that the annual subscription be raised to one guinea, to come into force at the next annual meeting.

NEW MEMBER.—Mr. E. B. Dunkerton, manager for Messrs. Lennon, Ltd., Durban, was elected a member of the Society.

Our American Letter.

From an Ethical Pharmacist.

The Sanitol Sensation has now proceeded for several months. The suit brought against the Sanitol Co. by the "Stockholders' Protective Committee," making charges against the management and asking for a receivership, is still in the courts. In the meantime Mr. Herman C. G. Luyties, president of the company, has declared that he will not accept a re-election until the charges against him have been cleared up. The Sanitol Co. is a quasi-co-operative concern, a good deal of the stock being owned by druggists and dentists throughout the country. An expensive advertising campaign was inaugurated a couple of years ago, which nearly threw the company "on the rocks."

Branch Post-offices.—Many American druggists, desiring to add to their incomes, conduct branch post-offices for the Federal Government. They make anywhere from $200 or $300 a year, but the earnings are so inadequate for the work performed that some months ago a National Association of Druggist-Postmasters was organised for the purpose of securing better terms from the Government. Now, however, a good deal of interest has been manifested in the action of Mr. Joseph E. Grubb, a prominent druggist in Chicago, who has thrown out the post-office station from his store after several years of experience, his statement being that the thing does not pay from any point of view, and that it prevents him from giving his regular customers the service to which they are entitled.

Food and Drugs Act.—In 1909 over 400 suits have been brought by the National Government in the enforcement of the Federal Food and Drugs Act, and only two cases have been lost. A case has now arisen, however, which brings forth a very interesting point. A large shipment of Waterbury's "Metabolised Cod-liver Oil Compound" has been seized for condemnation under libel proceedings, the charge being that the product is not "metabolised," that it contains insufficient cod-liver oil, and that it is otherwise misbranded. The Government began its action in the courts and gave publicity to its charges before the defendant was given a hearing, and the company therefore protests that the Government itself violated the law and practically hung the defendant before trying him. Manufacturers all over the country are for obvious reasons watching the settlement of this point with keen interest.

The United Drug Co. has often been referred to in this column. It is a large co-operative manufacturing concern of retail druggists, and its chief activity is the production and sale of a line of domestic remedies known as the "Rexall" products. In cities where the company cannot secure the right kind of local agent, it has started one or more pharmacies of its own, and now it happens that these have grown to be twenty-six in number. An auxiliary corporation has just been formed for the purpose of taking over this end of the business, and it is capitalised at $2,500,000. It is known as the Louis K. Liggett Co., taking its name from the president of the United Drug Co. The company-pharmacy idea is rapidly developing in America, the example of Jesse Boot in England doubtless being followed to a considerable extent. American druggists, by the way, have been very much interested in the recent knighting of Mr. Boot.

Legal Reports.

Trade Law.

An Unjust Weight.—At Cardiff on January 4, Messrs. Kernick & Sons, Ltd., wholesale druggists, Edward Street, Cardiff, were summoned before the Stipendiary Magistrate for having on their premises a condemned 4-lb. weight which was 4¼ oz. too light. Mr. M. P. Kernick, manager, stated that the weight was not used for trade-purposes, but for compounding, and consequently buyers were not affected. The case was dismissed.

Bonus under Contract Partially Fulfilled.—In the City of London Court on January 4, before Judge Lumley Smith, K.C., an action was brought by Mr. Eugen Oehler, merchant, Kahl-am-Main, Germany, against Messrs. Reitmeyer & Co., merchants, 63 Crutched Friars, E.C., for diamidophonol supplied. Mr. Oppenheimer, plaintiff's solicitor, said that the disputo arose out of a contract for 1,000 kilos. of diamidophenol. There was a clause in the contract that after the delivery a bonus of 5 per cent. in kind was to be given. Out of the total quantity of 1,000 kilos. 300 kilos. were delivered. Then about six months after the contract had been made diamidophenol fell in the market. The defendants alleged, and the plaintiff denied, that the defendants were entitled to a corresponding reduction in the price. Some correspondence took place, as a result of which it was agreed by mutual consent that the remainder of the contract should be cancelled. The real point in dispute was the defendants' counterclaim for the turnover bonus of 5 per cent. on the quantity actually delivered. Mr. T. H. Aldans, defendants' solicitor, said that the contract price of the diamidophenol was 11m. per kilo., and it was a condition of the contract that it should be subject to a falling clause to meet trade competition. Plaintiff elected to cancel the contract as to the balance of 700 kilos., and the defendants' contention was that the effect of the cancellation was really to substitute a contract for 300 kilos. for 1,000 kilos. Defendants should have a rebate in kind as to the 300 kilos. just as much as if the contract had been completed, and that was what the plaintiff had refused to agree to. Defendants now claimed 5 per cent. on the 166/. which was the price of the 300 kilos. His Honour found for the plaintiff on the claim and counterclaim, with costs, holding that the 5 per cent. was a condition on the sale of 1,000 kilos.

Carrying on Patented Processes.—Under the Patents and Designs Act, 1907, by a decision dated December 23, the Comptroller-General of Patents discharged an order made by him on April 28, 1909, revoking Letters Patent No. 4391, 1904, on December 31, 1909, unless in the meantime it was shown to his satisfaction that the patented process was carried on within the United Kingdom to an adequate extent. An application was made by the patentee for the purpose of offering proof upon this point, and the original applicants for revocation did not appear at the hearing to oppose it. The patent is for an improved method of preparing clay for casting, which embodies the use of an alkaline substance, such as "soda, soda-lye, ammonia, potash, waterglass, molasses, soap, or the like," so that larger grains may be employed in clayware casting, thus overcoming the difficulty experienced of these grains sinking to the bottom. The evidence produced at the hearing showed that, since the date of the order, every effort appeared to have been made by Messrs. Johnsen & Jorgensen, the London agents for the patentee, to bring the patent to the knowledge of manufacturers who would be likely to be interested in it, and that an agreement for a licence dated October 21, 1909, had been made between the patentee and Messrs. Chance Bros. & Co., of Smethwick. In accordance with this agreement an installation has been supplied to Chance Bros. & Co., and Mr. E. F. Chance, in his evidence at the hearing, stated that the plant had been erected and that considerable working had taken place. He pointed out, however, that owing to the peculiar nature of the process, and the necessity for drying the products, it was impossible at the moment to estimate exactly the success which would follow these early attempts. It was not practicable, therefore, to engage in a larger manufacture until the result of the early working could be tested. If it was successful, however, the plant would be put into the fullest working order. The Comptroller came to the conclusion that the patentee had done his utmost to cause the patent to be worked in this country by endeavouring to grant licences, and that by the licence in fact, granted to Chance Bros. & Co. an adequate manufacture within the meaning of the section had now been started, and that there was every security for its continuance in future. If the patented process did not continue to be carried on to an adequate extent in this country, it would still be open to any person to apply again in the future for revocation.

Bankruptcy Report.

Re Edwin Walkden, druggist, 129 Ferham Road, Holmes, near Sheffield.—The Official Receiver of the Sheffield Bankruptcy Court reports that he has completed the realisation of the estate. After meeting the costs and the preferential claims, there is a balance sufficient to pay to the unsecured creditors a first and final dividend of 2*s.* 1¼*d.* in the pound.

Gazette.

Partnerships Dissolved.

Bayley, F. S., Clanahan, H. C., and Bayley, F. P., Manchester, chemical merchants and agents, under the style of F. S. Bayley, Clanahan & Co.; so far as regards F. S. Bayley.

Hardwicke, W. P. A., and Ferguson, L. C., Mitcham Road, Tooting, London, S.W., physicians and surgeons, under the style of Hardwicke & Ferguson.

Lewis, P. G., and Sworder, E. G., Folkestone, physicians and surgeons, under the style of Dr. Lewis and Dr. Sworder.

Peacock, E. V., and McNabb, L., South Shields, Durham, surgeons and general medical practitioners, under the style of Drs. Peacock and McNabb.

Westphal, C. C. N., and Holzbacher, C., Upper Thames Street, London, E.C., commission agents, etc., under the style of Charles Westphal.

The Bankruptcy Acts, 1883 and 1890.

Receiving Order.

Gower, George Albert, Romford Road, London, E., chemist. [This name is not on the register of chemists and druggists.—Ed. *C. & D.*]

Adjudications.

Gower, George Albert, Romford Road, London, E., chemist.

Hardman, Robert, Bury, Lancs, herbalist.

Company Notices.

Cliffe Soap Co., Ltd.—Meeting of creditors at 7 Lime Street, Preston, on February 8, to receive the report of the liquidator, Mr. Joseph H. Ward.

County Mineral Water Co., Ltd.—Claims to be lodged with the liquidator, Mr. Wm. Dancey, City Chambers, Clarence Street, Gloucester, on or before February 15.

Rational Remedies, Ltd.—A petition to the High Court of Justice for an order re the winding-up of the company was, on December 28, 1909, directed to be heard on January 12.

New Companies Registered.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

Lubroleine Oil Co., Ltd. (P.C.).—Capital 1,000*l.*, in 1*l.* shares. To carry on the business of dealers in oils, greases, lubricants, disinfectants, and soaps. F. R. T. Lucas is the first director. R.O., Universal Wharf, Bankside, S.E.

Veda, Ltd.—Capital 5,000*l.*, in 1*l.* shares. Objects: To acquire and carry on the business carried on by the Veda Food Co., Ltd. (now in liquidation), and all or any of the assets of that company. The first directors are G. Mackie, D. Elliot, and R. Graham. R.O., 65 Castle Street, Edinburgh.

W. S. Ferguson & Co., Ltd. (P.C.).—Capital 15,000*l.*, in 10*l.* shares. Objects: To purchase and carry on the business of W. S. Ferguson & Co., of Perthshire Chemical and Manure Works, Perth. The first directors are W. S. Ferguson and J. Stewart, R.O., the Perthshire Chemical-manure Works, Friarton, Perth.

Nobles & Hoare, Ltd. (P.C.).—Capital 300,000*l.*, in 1*l.* shares. To acquire the business of Nobles & Hoare, Cornwall Road, Windmill Street, and Holmes Terrace, London, varnish, stains, and colours makers, chemists, etc. The first directors are J. R. Hoare, L. Noble, and C. M. Crompton-Roberts. R.O., Cornwall Road, Stamford Street, S.E.

M. S. Berger & Co., Ltd. (P.C.).—Capital 3,000*l.*, in 1*l.* shares. To adopt an agreement with M. S. Berger, and to carry on the business of photographic chemists and engineers, manufacturers of and dealers in photographic machinery and plant, etc. M. S. Berger is permanent governing director. R.O., 106-110 Kentish Town Road, N.W.

Kosmo Lubric Oil Co., Ltd.—Capital 4,000*l.*, in 1*l.* shares. Objects: To take over and carry on the business of the Kosmo Lubric Oil Co., Stalybridge, oil merchants and refiners, chemists, druggists, manufacturers of and dealers in toilet-requisites, etc. The first directors are E. A. Marshall and J. Marshall. R.O., Castle Mill, Castle Street, Stalybridge, Cheshire.

Simmonds, Hunt & Montgomery, Ltd. (P.C.).—Capital 100,000*l.*, in 1*l.* shares (40,000 6-per-cent. non-cumulative preference). Objects: To acquire the business carried on by Simmonds, Hunt & Montgomery, Liverpool, manufacturers of and dealers in and agents for the sale of linseed, cotton-seed, feeding, fattening, and other cakes, meals, and cattle and other foods of all kinds, fertilisers, manures, and other chemical substances, etc. The first directors are H. Montgomery, A. Hunt, E. V. Hunt, H. Montgomery, jun., and W. S. Montgomery (all permanent).

John Currie, Ltd. (P.C.).—Capital 510*l.*, in 1*l.* shares. Objects: To carry on the business of manufacturing and dispensing chemists and druggists and dealers in medicines, perfumes, and surgical and toilet sundries now carried on by the trustees of the late John Currie, 39 Eglinton Street and 64 Crown Street, Glasgow. The first subscribers are James Bruce, chemist and druggist, 39 Eglinton Street, Glasgow; Miss Helen Walker Miller, Ardbeg, Newlands, Glasgow; Hugh Miller, chemists' assistant, 73 Kenmure Street, Pollokshields, Glasgow; Archibald N. White, traveller, 1 Hamilton Drive, Pollokshields, Glasgow.

Company News.

London Produce Clearing House, Ltd.—The directors announce a dividend of 3*s.* 6*d.* on the ordinary shares, making 10 per cent. for the year, and 25*l.* on the founder shares, carrying forward 15,700*l.*

Parke's Drug Stores, Ltd.—At the annual general meeting on December 31, the Chairman (Mr. P. Warnford-Davis), in moving the adoption of the report and accounts (*C. & D.*, January 1, p 9), stated that upon the present occasion only 3 per cent. had been distributed on the ordinary shares, instead of the 6 per cent. invariably paid before, and some might say that even this 3-per-cent. dividend was not warranted. The gross profits had reached the lowest-water mark. He referred to the "intensely selfish policy" of some of the company's opponents in business in the terms reported in an editorial article in this issue, and added that the directors had decided to close the Kilburn branch simply because what was an excellent business has been so surrounded by competitors that it was considered advisable to transfer the fittings elsewhere. The reserve fund is not to be further depleted. The retiring director, Mr. P. Warnford-Davis, was unanimously re-elected.

Co-operative Medical Stores, Ltd.—This company has been registered under the Indian Companies Act at 4 Commercial Buildings, Calcutta, with a nominal capital of Rs. 200,000, divided into 20,000 shares of Rs. 10 each, of which 19,500 are offered to the public for subscription. The company will be at liberty to go to allotment upon receipt of applications for 5,000 shares. It proposes to establish stores at which "reliable drugs, medicines, and surgical appliances may be obtained at reasonable prices." The circular which has been issued states that the business will embrace the principal features of the co-operative system, as it will be conducted for the collective benefit of members, to whom it will afford certain privileges not available to the general public. The manager will be a qualified chemist, and the quality of drugs will be supervised by an advisory committee of medical men. The directors are L. P. E. Pugh (barrister-at-law), C. C. Armitage, and J. C. Forrester.

Mortgages and Charges.—Particulars of the following have been filed at Somerset House: *Lichtenstein & Co., Ltd.* Debenture to secure 1,400*l.*, held by H Holtz, 115 Whitecross Street, E.C., and A. G. Rosenberg, 38 Burne Street, London.—*Charles Massey & Son, Ltd.* Issue of 200*l.* debentures.—*Progressive Rubber Co., Ltd.* Issue of 500*l.* debentures.

Agri-Horticultural Licences.

(Poisons and Pharmacy Act, Sec. 2.)

Application Granted.

Chorley.—The Town Council on December 30, on the recommendation of the Sanitary Committee, have granted the application of Mr. F. W. Jardine, florist, 57 Market Street.

Business Changes.

Notes for this section must not be in the nature of advertisements, and they should be authenticated when sent to the Editor.

MESSRS. BRETT & Co., chemists' valuers, have gone back to their old address, 73 Laurel Road, Leicester.

MESSRS. J. H. VAVASSEUR & Co., LTD., have removed to Ceylon House, 15-16 America Square, London, E.C.

MESSRS. C. OLLEY & SONS, cork-merchants, have removed to larger and more convenient premises at Duncan Street, Leman Street, London, E.

BOOTS, LTD., have secured premises at Kingsway, London Road, Twickenham, which are to be opened after completion of the necessary alterations.

MESSRS. JAMES LAING, SON & Co., colonial merchants, 14 Mincing Lane, London, E.C., have admitted into partnership Mr. James Gordon Laing, son of their senior.

MESSRS. BATE & GORST, chemists, 23 Market Street, Lancaster, have acquired the prescription-books and private recipe-books of Messrs. Bagnall & Co., 18 New Street, Lancaster.

MESSRS. W. T. SARGANT & SONS, 6 Mincing Lane, London, E.C., announce that they have taken into partnership Mr. Thomas Howard Sargant, son of the late T. J. W. Sargant.

MESSRS. MCADAM & TUCKNISS, stock and share dealers, have removed to larger offices at Bank Chambers, Blackheath, S.E. The telephone number and telegraphic address will remain as hitherto.

MESSRS. KNOWLES & FOSTER, merchants, 48 Moorgate Street, London, E.C., announce the retirement of their senior, Mr. Richard Foster, and the admittance of Mr. Thomas Geoffrey Pettitt as partner.

MR. W. T. GRAHAM, F.S.M.C., chemist and druggist, has taken over the business of Mr. Wm. Gray, chemist-optician, at 261 High Street North, Manor Park, Essex. Mr. Graham has managed the business during the last three years.

MESSRS. E. A. DE PASS & Co., West India merchants, Dixon House, Fenchurch Street, E.C., announce the retirement from their firm of Mr. Benjamin Odio, of New York, and the admission as a partner of their senior's eldest son, Mr. Harold de Pass.

MESSRS. PETER SPENCE & SONS, LTD., Manchester Alum-works, Manchester, have opened an office at Salisbury House, Finsbury Circus, London, E.C., for the purpose of carrying on the portion of their business conducted by their late London agents, Messrs. W. Caudery & Co.

MR. GEORGE PARKER (trading as Haddock, Parker & Co., drug-merchants), 14 Chapel Street, Liverpool, intimates that he has taken his son-in-law, Mr. Arthur Bertram Rayner, also Mr. George Lewis Ellis, into partnership, the style of the firm remaining as hitherto.

MESSRS. CORRIE, MACCOLL & SON, colonial brokers, Dunster House, Mincing Lane, E.C., announce that Mr. F. L. Morris, late partner in the firm of Messrs. Cox, McEuen & Co., has joined them as a partner. Mr. W. E. Mitchell, for a long time with them, has been authorised to sign their firm by procuration.

MR. R. H. BRITTAIN, chemist and druggist, has acquired the wholesale manufacturing perfumery business of Messrs. Dion, 71 Newman Street, Oxford, Street, W., and has in consequence relinquished his connection with the firm of Messrs. Pritchard & Constance, chemists, 64 Haymarket, London, S.W. Mr. T. W. Theakston, pharmaceutical chemist, has undertaken the liabilities and assets of the last-named firm as from December 31, 1909.

MR. R. H. GROVES, pharmaceutical chemist, Blandford, has taken into partnership Mr. Thomas H. Hall, and the business will henceforth be carried on as Groves & Hall. Mr. Groves is a nephew of the late Mr. T. B. Groves, of Weymouth, and it may be remembered that he did pharmacy an excellent service in 1893, when he defended the action brought against him by the Royal College of Veterinary Surgeons for the use of the description "pharmaceutical and veterinary chemist." The Blandford Magistrates dismissed the summons, but stated a case, and the proprietors of THE CHEMIST AND DRUGGIST organised a fund for maintaining the decision on appeal. This was heard on June 3, 1893, when Mr. Justice Day and Mr. Justice Lawrance dismissed the appeal of the College, and so established the legitimacy of the use of the description "veterinary chemist" by registered chemists and druggists.

Personalities.

Notes for this section must not be in the nature of advertisements, and they should be authenticated when sent to the Editor.

MR. HARRY C. GOOSEMAN is now representing the Vinolia Co., Ltd., in London.

MR. ERNEST E. MARSHALL, manager of Buvo, Ltd., has obtained an engagement with Messrs. Ayrton & Saunders, Ltd., Liverpool, as manager of their packed-goods department.

MR. JEFFERSON DODD, chemist, 34 James Street, W., in a letter to the "Daily Telegraph," points out "the cruel effect the Budget spirit taxation will have on the hospitals and kindred institutions throughout the country."

SIR THEODORE MORISON, member of the India Council, who is receiving the K.C.I.E. (other than Indian New Year honours have been postponed until Parliament is dissolved), was formerly Principal of the Mohammedan College at Aligarh, in the United Provinces, and is the son of the late James Cotter Morison, author of "The Service of Man," whose father was the maker of "Morison's pill."

MR. JOHN DOLBEAR, the popular President of the Oxford Chemists' Association, is a native of Torquay, where he was born on November 25, 1857. He was educated at St. Luke's Middle Class School, Torquay, and articled to Mr. F. C. Mess Millar, Ph.C., for three years, but stayed with him for nine years. In September 1881 he entered Luff & Woodland's School of Pharmacy, and passed the Minor examination in December. He then became an assistant to Messrs. J. & H. Mathews, Queen's Gardens, Bayswater, remained eighteen months there, then returned to Luff & Woodland's for the Major examination, which he passed in December 1883. He went back to Messrs. J. & H. Mathews as assistant. He obtained the Pharmaceutical Council's bronze medal in 1884. He remained at Queen's Gardens until 1893, when he acquired a share of Messrs. Mathews' Oxford business, Hitchcock & Co., which they carried on successfully together for eleven years, when the partnership was dissolved through the ill-health of Mr. Henry Mathews. Mr. Dolbear then took Mr. H. C. Goodall into partnership, and they trade as Dolbear & Goodall at 108 High Street, Oxford. Mr. Dolbear was Secretary and Treasurer of the Association for nearly a decade before he took on the duties of the presidency. He has served Oxford as a Guardian for over twelve years.



MR. J. DOLBEAR.

MR. W. CARLILE, Hon Chief Secretary of the Church Aid Society, 55 Bryanston Street, Marble Arch, London, W., writes about the work of the Boys' Aid Department, which assists lads of poor but respectable families to find situations, and so give them a chance of a good start in life. On their leaving school the Army tries to get the higher-standard boys placed into trades. Mr. Carlile would be most grateful to any of our readers who could co-operate with him by offering work to some of the lads, and taking a friendly interest in them when so employed.

Trade Notes.

The name of Messrs. May, Roberts & Co., Ltd., Clerkenwell Road, London, E.C., was accidentally omitted from the list which we gave last week of the firms who through the *C. & D.* extended New Year greetings to the trade.

Wincarnis figures prominently in the Drury Lane pantomime this year. The Widow Twankey (played by Mr. Wilkie Bard) sustains herself with it on several occasions, and a large bottle of the wine is produced in one of the most striking scenes

Veterinary Instruments.—Messrs. James L. Hatrick & Co., Ltd., 70 St. John Street, Clerkenwell Road, London, E.C., have just published a new list of veterinary instruments. The list is fully illustrated and priced, and on this account is valuable to chemists who are buyers of veterinary instruments.

Messrs. Potter & Clarke, Ltd., 60 to 64 Artillery Lane, London, E., have purchased the business, goodwill, and all formulæ of lozenges, cachous, and other preparations manufactured by the late Mr. W. Morris, the proprietor of Messrs. Simro & Co., Kilburn. Mrs. Morris has authorised them to collect all outstanding accounts on her behalf.

Standardisation of Disinfectants.—Jeyes' Sanitary Compounds Co., Ltd., 64 Cannon Street, London, E.C., state in our advertisement pages that the definite conclusions of the recent "Lancet" Commission on the standardisation of disinfectants were arrived at from indefinite and erroneous data. Chemists should refer to the advertisement to see the decided stand which the company take in the matter.

"The wholesale chemistry trade," says "Printers' Ink" of January 5, "must be a business particularly productive of the spirit of good will, to judge from the advertising in the issue of The Chemist and Druggist dated Christmas Day. Well over twenty advertisers occupy their space to thank their clients for past favours, and to wish them 'the compliments of the season,' and seventeen of these advertisers take whole pages to do it. This must surely be the result of a prosperous year in 1909."

Optical Advertising.—Messrs. Raphaels, Ltd., manufacturing opticians, 57B and 57C Hatton Garden, London, E.C., have on view in their showrooms an attractive advertising-device for opticians' windows. It consists of a large globe supported on glass pillars on an oak base. Inside the globe is an electric lamp which flashes at intervals of a few seconds. On the globe are inscriptions such as "Eyesight Specialist," or "Oculists' Prescriptions Carefully Executed." The device is about 14 in. high, and the flashing lamp can be obtained for any electric current from voltages of from 100 to 250.

Absorbine.—We have received from W. F. Young, P.D.F., manufacturer of this veterinary speciality, Springfield, Mass., U.S.A., copies of several testimonials which he has recently received from noted users of the preparation. The testimonials are to the effect that for sprains and other blemishes of well-blooded and other horses "Absorbine" has proved most efficacious, particularly in bringing the animals back to work quickly. The agents for Great Britain are Messrs. Thos. Christy & Co., Old Swan Lane, Upper Thames Street, London, E.C., and they will be glad to furnish any veterinary chemist with full particulars as to the uses and selling price of the article.

Massogran is the name of the newest preparation of the Bulgarian lactic-acid ferment. It is made and patented by Messrs. A. H. Cox & Co., Ltd., Brighton. Massogran is in granular form, but does not effervesce, and is employed according to the following directions :

> "One or two teaspoonfuls in warm (not hot) tea, coffee, or milk, before the morning and evening meals. Another way is to sweeten some previously boiled milk, cool same, add two teaspoonfuls of 'Massogran,' and keep in a warm (not hot) place for two hours before drinking."

Massogran is a useful preparation to recommend in place of Massolettes, where the chocolate form or sweetness is objected to. Massogran is put up in wide-mouth amber-coloured bottles, the package selling at 2*s.* 6*d.*

"John Strange Winter" (Mrs. Stannard), the well-known novelist, who recently published her one-hundredth book and personally controls a growing trade in her toilet preparations, in a characteristic Christmas letter to her direct customers, remarks :

> I am sure you will be glad to hear that this year's sales have been the best (in the aggregate) of any years since the J.S.W. Company was started, notwithstanding the dire effect of the Budget proposals, which greatly increased the cost of making the preparations, and (for a few months) seemed to induce exceptional economy on the part of most of those who buy them. But since June such an increased demand has set in that this has been more than counterbalanced.

Ammonium-chloride Inhaler.—As Messrs. Burroughs Wellcome & Co. were among the first to introduce the ammonium-chloride inhaler into this country, their latest improvement on this apparatus is peculiarly interesting. The new form ("Vaporole" inhaler) consists of a tube, 1 in. in diameter and 5½in. long, into which is inserted a wetted sponge. A rubber stopper with a T test-tube fits into this, and into it are inserted a vaporole of ammonia solution, and another of hydrochloric acid previously broken. The absorbent cover of the vaporoles is admirable for placing the alkali and acid in position, and the inhaler furnishes a voluminous smoke of washed ammonium-chloride vapour, as exhibited in the illustration. The inhaler is packed, with vaporoles of ammonia and acid, in a box measuring 6 in. by 2¼ in. by 2 in. Renewal boxes of the materials are obtainable.



A New Pill List.—The British Drug Houses, Ltd., 22-30 Graham Street, City Road, London, N., have issued this week a price-list of coated pills, ampullas (*sic*), cachets, gelatin capsules, bougies, pessaries, suppositories, lozenges, jujubes and pastilles, dog-pills and horse-balls. The price-list combines the pill catalogues previously published by the firms constituting the British Drug Houses, Ltd.—namely, Messrs. Barron, Harveys & Co., Davy, Hill & Co., Hearon, Squire & Francis, and Hodgkinsons, Clarke & Ward. Considerable ingenuity has been exercised in renumbering the pills. There are 1,938 distinct formulæ, and the numbers in the catalogue are prefaced by "N," and supplemental lists are given of the corresponding numbers previously used by each of the firms and the corresponding numbers are also given in the catalogue. From the business point of view the arrangement is well conceived and admirably carried out, and as a formulary the catalogue is the most complete that has come into our hands. The alphabetical indices of names and synonyms of pills is especially serviceable to pharmacists; in fact, the price-list has many characteristics of a book of reference, while duly meeting its primary object of being a price-list of pills and the other products mentioned. The "Sweet perle-coated" pills and "balsam-coated" pills (trade-marked specialities of the Houses), as well as other coatings, are included, but for full particulars we refer subscribers to the list itself, copies of which can be obtained from the headquarters at Graham Street on application.

The following appears in the report of the Committee of the Dublin Technical School regarding the non-recognition of the botany classes by the Pharmaceutical Society of Ireland :

> "The certificates of attendance in our chemical laboratories are recognised for the licensed examinations of the Pharmaceutical Society, but that body has declined to give similar recognition to attendance at our botany and materia medica classes, although the ability of the teacher is undisputed and the courses more than cover the programme of the Society. We wrote on this matter to the Privy Council, with whom lies the approval of the Society's regulations, and pointed out that it was not the intention of the Legislature to confer on the Pharmaceutical Society the power of securing a monopoly of teaching in its own pecuniary interest; but we were informed in reply that the Privy Council were powerless to alter the attitude of the Society."

Births.

BOUND.—At The Pharmacy, Llandrindod Wells, on January 3, the wife of W. S. Bound, pharmacist, of a son.

MUNRO.—At 153 High Street, Lochee, on January 2, the wife of Neil George Munro, chemist and druggist, of a son.

RICHARDS.—At Cadoxton, Barry, on December 29, 1909, the wife of P. D. Richards, Ph.C., of a daughter.

Marriages.

COLLITT—ROSE.—At St. Matthias Church, Westmount, Montreal, on December 15, by the Rev. Edward Bushell, M.A., Bernard Collitt, Ph.C., F.C.S., formerly of Gainsborough, England, to Mabel Murray Martin, daughter of Mr. and Mrs. J. C. Rose, of Westmount.

LLOYD—SMITH.—At the Parish Church, Water Orton, by the Rev. C. N. Long, M.A., on January 1, Herbert Oliver Lloyd, chemist and optician, of 323 Coventry Road, Birmingham, to Nellie Hildred Smith, of Water Orton, near Birmingham.

Deaths.

ANDERSON.—At Wedderburn, Australia, on November 8, Mr. Walter Whitlock Anderson, aged eighty-five. Mr. Anderson was born at Ludlow, England, in 1824, and apprenticed at Shrewsbury. After filling a position as assistant at Liverpool, he emigrated to Port Phillip, Australia, in 1852, and went to Ballarat, where he started a pharmacy in a tent. He left there in 1859, and purchased a business in Chapel Street, Prahan, Melbourne, where he remained till 1898, when he retired owing to failing eyesight.

CORDER.—At Brundall, Norwich, on January 5, Mr. Octavius Corder, pharmaceutical chemist, aged eighty-two. Mr. Corder was one of the best-known pharmacists in the Eastern Counties, his business being at London Street, Norwich, but of late he had retired from public offices. He was apprenticed to Thomas Knott, Exeter, in 1843, for six and a half years, and after its completion went in 1851 to the School of Pharmacy before entering for the examinations. He duly passed the Major, his certificate being numbered "86." He is perhaps best known in pharmacy as a botanist, and he was examiner in botany for the Pharmaceutical Society from 1874 to 1894. He always wore a flower in his buttonhole, and nothing pleased him more than to enter into conversation about the specimen he was wearing, there was generally some point about it of exceptional interest. He was President of the British Pharmaceutical Conference at the Nottingham meeting in 1893, and his address was devoted to his favourite subject. The early part, comprising an account of Gerard, and his "Herbal" displayed that intimate knowledge of the subject which is only found in enthusiasts. His injunction was to obtain the 1633 edition, as that is the "right one." He was a member of the Council of the Pharmaceutical Society from 1895 to 1904, when he failed to obtain enough votes to entitle him to a seat. Mr. Corder had a good reputation as a trainer of apprentices, and many who have since made their mark in pharmacy were initiated in the art at his Norwich pharmacy. Mr. Corder's two sons, Edward and John, carry on the business which their father founded many years ago.

DAY.—At Eversleigh, Dewsbury, on December 29, Mr. Edward W. G. Day, head of the firm of Mark Day & Son, drysalters and manufacturing chemists, West Town, Dewsbury, aged sixty.

LAMONT.—At Kilmarnock, N.B., on January 1, Mr. Robert Lamont, F.I.C., Chairman of Utilitarium, Ltd., drysalters, Kilmarnock, aged fifty-nine.

LAMPLUGH.—At Boston, Lincolnshire, last week, Mr. William Lamplugh, chemist and druggist, aged seventy-nine. The deceased gentleman was in business at 23 Wide Bargate, Boston, until he retired a few years ago.

LEWIS.—At the Pharmacy, Llangefni, on December 25, Mrs. M. A. Lewis, widow of Mr. Owen Lewis, chemist and druggist, aged fifty-four.

TYRER.—"The Times" reports the death, on January 3, of Canon F. B. Tyrer, Vicar of St. Saviour's, Everton, Liverpool, in his sixtieth year. The Canon was a brother of Mr. Thomas Tyrer, F.I.C., F.C.S., and a native of Wolverhampton, of which town his grandfather was Mayor. Canon Tyrer was ordained deacon in 1874 and priest in 1875, and became curate under Archdeacon Taylor, his whole clerical life being spent in Liverpool. In 1877 he took temporary charge of All Saints', Great Nelson Street, during the incumbent's illness, and on the latter's death he was appointed vicar. For ten years he did splendid work in this slum parish, and in 1887 he was appointed Vicar of St. Saviour's. He took a keen interest in all matters relating to elementary education, and served on the old Liverpool School Board, and up to the time of his death he was a member of the Local Education Authority. He was appointed honorary canon in 1895 by the late Bishop Ryle, who also made him Rural Dean of Walton.

WALKER.—At Murieston, Edinburgh, on January 3, Mr. John Dalling Walker, chemist, aged forty-three.

Recent Wills.

MR. MORRIS EVANS MORRIS, Portmadoc, Carnarvonshire, chemist and druggist, who died on May 13, 1909, aged seventy-seven years, left estate valued at 2,239*l.* 19*s.* gross, of which 404*l.* 6*s.* 1*d.* is net personalty. His son, Mr. William E. Morris, chemist, Portmadoc, is executor.

MR. WILLIAM SHARP, of Whitley Bay, traveller for Messrs. Bleasdale, Ltd., York, who died on November 5 last, aged fifty, left estate valued at 2,635*l.* 2*s.* 6*d.* gross, of which 1,916*l.* 13*s.* 10*d.* is net personalty; and the sole executrix of his will is his widow, Mrs. Mary Hannah Sharp, of Ebor House, Whitley Bay.

MR. DAVID HUGHES DAVIES, of 11 Alban Square, Aberayron, Cardigan, formerly a representative for Messrs. Evans Sons Lescher & Webb, Ltd., who died on August 4, 1909, aged forty-six years, left estate valued at 1,556*l.* 1*s.* 6*d.* gross, with net personalty 1,549*l.* 10*s.* Probate of his will has been granted to his widow, Mrs. Elizabeth Davies, to whom he left the whole of his estate absolutely.

DR. WILLIAM JAMES RUSSELL, F.R.S., F.C.S., of St. Ives House, Ringwood, Hants, and 34 Upper Hamilton Terrace, St. John's Wood, N.W., who died on November 12 last, left estate valued at 85,993*l.* gross, with net personalty 75,732*l.* After bequests to servants, the testator left his property as to one-half to his son Thomas Herbert Russell absolutely, and one-half upon trust for his daughter Mrs. Agnes Mary Scott and her issue. Probate has been granted to Mrs. Scott, other trustees having renounced probate.

Optical Observations.

By a Chemist-Optician.

The Question of Illumination

is a factor which is of prime importance to the optician, not only in sight-testing work, but in all other branches. For example, the only reason why manufacturers of microscopes cannot get higher magnification is not because they cannot make lenses of higher powers, but because at these powers the illumination becomes much too poor to work with. The refractionist, however, is principally concerned with the illumination of test-types, about which there is some very good advice in the paragraph on the testing-room in "The Chemist-Optician." I have found the method advised there, of using artificial light always, much the most satisfactory, as one soon becomes familiar with the conditions under which one is working, and can go straight ahead, whether there is daylight or not. The chief point is to have the test-types equally illuminated, to avoid having a very bright part with corresponding shadows. For this it is better to have a source of light on either side of the chart, whether electric light or gas; the rest of the room is, of course, in the shadow, the lamps being protected from the customer by shades or reflectors.

Pharmaceutical Society of Great Britain.

COUNCIL MEETING.

A MEETING of the Council was held at 17, Bloomsbury Square, London, W.C., on January 5. All the members were present except Mr. C. J. Park (Plymouth). Reference was made to the death of Dr. Greshoff, Mr. Jas. Paterson, Mr. W. Harvey, and Mr. E. M. Chater. The last-named has left a donation of 20*l.* to the Benevolent Fund. Mr. W. H. Gibson referred to the deficit shown in the accounts of the Fund, which he regarded as "a very deplorable state of things." The payments from the Fund during 1908 amounted to 3,106*l.*, and the subscription income decreased from 1,700*l.* to 1,519*l.* Casual grants amounting to 91*l.* 10*s.* were made from the Benevolent Fund. The Birkenhead and Wirral Chemists' Association sent a resolution of the fullest confidence in the Council, as a result of a visit from Mr. J. R. Young and Mr. Chater. The original "fiery cross" resolution of that Association is still, however, being sent up to the Council by other local bodies. In regard to the utterances of Mr. Upton at a meeting of the Apothecaries' Assistants' Association, the Master of the Society of Apothecaries informs the Council that "Mr. Upton disclaims the use of the words attributed to him in the published reports."

There were present at the Council meeting the President (Mr. J. F. Harrington), the Vice-President (Mr. W. L. Currie), the Treasurer (Mr. Walter Hills), and Messrs. C. B. Allen, A. S. Campkin, M. Carteighe, W. G. Cross, J. H. Cuff, F. J. Gibson, W. H. Gibson, R. L. Gifford, D. Gilmour, A. Hagon, J. Harrison, A. E. Hobbs, E. T. Neathercoat, G. T. W. Newsholme, P. F. Rowsell, E. White, and J. R. Young.

Letters of Thanks.

The minutes of the previous meeting having been read,

The President announced that letters had been received from the Right Hon. Sir Henry Roscoe thanking the Council for their congratulations on his appointment to the Privy Council. Sir W. A. Tilden also thanked the Society for the friendly message on the occasion of his reception of a knighthood.

Deaths.

The President then referred to the death of Dr. Maurits Greshoff, Director of the Haarlem Colonial Museum and a corresponding member of the Society. He was a very distinguished botanist, and, had he lived, would have doubtless received the Hanbury medal. Mr. James Paterson's death was also mentioned, and that of Mr. W. Harvey and Mr. E. M. Chater (Watford); the last-named has bequeathed 20*l.* to the Benevolent Fund.

Elections and Restorations.

Seventy-two members and thirty-three student-associates were then elected, and thirty-two persons restored to their former position in the Society. The names of six persons were restored to the register of chemists and druggists.

Finance.

The report of the Finance Committee was then presented by Mr. W. H. Gibson, the following being an abstract of the accounts :—

Receipts.

Penalties and costs	... £131	5	5
Subscriptions and sundry sales	... 37	14	3
"Journal" and publications ...	... 990	5	3
Restoration-fees	... 9	6	0
Registration-fees	... 56	14	0
Examination-fees	... 1,419	16	0
	£2,645	0	11

After making the payments authorised in December, the amount to the credit of the General Fund was 1,795*l.* 2*s.* 9*d.*, from which the following payments were recommended to be made :

"Journal" and publications	... £600	0	7
Stationery, etc.	... 39	5	8
Current expenses	... 650	0	0
Salaries, etc.	... 285	5	0
School and examinations ...	... 77	18	3
Law-charges	... 163	5	7
House	... 63	11	8
Library	... 19	6	9
	£1,898	13	6

The Benevolent Fund accounts showed the following balances :

Current account (due to bank)	... £267	2	6
Donation account	... 33	5	1
Orphan Fund	... 54	18	2

Mr. Gibson, in moving the adoption of the report, said there is nothing abnormal in the first part, but with the Benevolent Fund it is very different—the deficit of 267*l.* indicates "a very deplorable state of things." During 1909 3,106*l* was paid out—1,268*l.* in casual grants and 1,837*l.* in annuities. The subscription income was 1,519*l.*, against 1,700*l.* Why the income had fallen he did not know, but he thought that if the Council administered a stimulant it should help to bring in a number of subscribers. Among the donations to the Benevolent Fund during the past month was 50*l.* from Mr. Thos. Kay (Stockport) and 1*l.* 7*s.* 6*d.* from the Association of Women Pharmacists. The committee had been able to repay 100*l.* which had been borrowed from the bank, but are still indebted for a considerable amount. Mr. Gibson further explained that some years ago the Council bought property at Bromley at an advantageous price, which brings in a good income. To do this 9,000*l.* had to be borrowed from the bank, of which 7,000*l.* had been paid off. More subscriptions are needed to meet the demands on the Fund.

The President agreed that more annual subscribers are wanted.

The report was received and adopted.

The Treasurer was further authorised to pay the annuitants quarterly during 1910.

Benevolent Fund.

The report of the Benevolent Fund Committee was considered in committee, after which

Mr. Campkin moved the adoption of the report. In regard to the unsatisfactory state of the Benevolent Fund, he said that Mr. Gibson had anticipated the remarks he had intended making. It should be mentioned that the Fund has an income other than that from subscriptions, but the 42,000*l.* property belonging to the Fund cannot be used as income. The annual subscriptions are paid in January, and this would lead to an increase in the amount available for distribution. Grants amounting to 91*l.* 10*s.* were recommended to be made, 86*l.* of this being to widows of chemists and druggists. He had on the previous occasion estimated that there would be a deficit of 350*l.* on the year, but was glad this had only been 267*l.* One of the subscribers in Leeds had suggested that the Society might issue collection-boxes for placing in chemists' shops. These, it was proposed, could be used to receive payments for the little services which chemists often render gratuitously to their customers. The matter is under consideration of the committee.

The President, in putting the resolution, said he was opposed to the idea of collecting-boxes. He thought that distress among chemists should be relieved by the chemists themselves, and not by appeal to the public.

The report was adopted.

Library Committee.

The Treasurer then presented the report of the Library, Museum, School, and House Committee, which dealt chiefly with routine matters. Electric-light fittings amounting on estimate to 6*l.* 17*s.* were ordered to be fitted in Professor Greenish's laboratories. Other accommodation for hats and coats in the hall was authorised at a cost of 8*l.* 16*s.* Messrs. Parkinson's account for 45*l.* 14*s.* 6*d.* was approved. Some other items referred to the school, the provision of cupboards, and supply of samples of calcium nitrate and

kalksalpeter by the Badische Anilin und Soda-Fabrik. Professor Crossley was authorised to supply plans of the recently fitted draught-cupboards to the Office of Works. The School of Pharmacy Students' Association thanked the Council for the use of the examination-hall for a whist drive, and Professor Millar Thompson for the use of the council-chamber for a meeting of the Board of Internal Examiners in Chemistry for the University of London.

Mr. HILLS commented on some of the matters dealt with in the report, and in regard to the new cloak-room accommodation which is being fitted up under the stairs of No. 17 said he was afraid it looks rather unsightly at present.

Mr. YOUNG : It looks like a hen-roost. (Laughter.)

The report was adopted.

DIVISIONAL SECRETARIES.

Divisional officers were appointed for East Carnarvon, Norwood, South Nottingham, North-East Derbyshire, and four divisions of Sheffield. Mr. Middleton is taking Mr. Ross Sergeant's place in the South Nottingham division, and Mr. BREMRIDGE said that, without making invidious distinctions, he would like to acknowledge the help he had frequently received from Mr. Sergeant.

Mr. NEWSHOLME and the PRESIDENT endorsed the remarks about Mr. Sergeant.

The SECRETARY reported that he had registered a number of apprentices or students during the month.

THE BIRKENHEAD AND WIRRAL RESOLUTION.

The resolution urging the Council to appeal in the Mercer case, which was sent by the Birkenhead and Wirral Chemists' Association to local Associations throughout the country, is still being sent to the Council. Curiously enough, the Birkenhead and Wirrall Association have now, as a result of a visit from Mr. J. R. Young and Mr. Chater, passed a resolution expressing appreciation and confidence in the Council's work and approval of the present policy.

Mr. YOUNG said the resolution was both generous and appreciative, and was an evidence of the wisdom of sending Mr. Chater to visit local Associations. He added that the meeting was not of a stormy and violent character as stated in the Press, but, on the contrary, was singularly unanimous. Every little ripple on the glassy surface of a placid lake should not be construed into a storm.

The TREASURER : I suggest that now Mr. Young is no longer president, he might visit other associations. (Hear, hear.)

Mr. YOUNG : I might as well have remained president. (Laughter.)

The Grimsby, Bolton, and Great Yarmouth Associations sent to the Council the protesting resolution originally sent out by the Birkenhead and Wirrall Association. On the other hand, the Halifax and Bournemouth Associations sent expressions of confidence in the Council. The Chemists' Assistants' Association have further considered the Mercer case and regret that in view of legal advice the Council have decided to make no appeal.

APOTHECARIES' ASSISTANTS.

The Sheffield branch of the National Union of Assistant Pharmacists sent a resolution protesting against registration without examination of Army compounders or of apothecaries' assistants, which was ordered to be sent to the Law Committee.

A letter was written to the Master of the Society of Apothecaries regarding the language of Mr. Upton, the Clerk of the Society, at a meeting of the Apothecaries' Assistants' Association. A reply has now been received from the Society of Apothecaries that "Mr. Upton disclaims the use of the words attributed to him in the published reports."

TERRITORIAL PHARMACISTS.

The Thames Valley Association forwarded a resolution urging the Council to approach the Secretary of State for War asking him to grant the claims of eligible pharmacists to some form of commission in the Territorial medical units.

The PRESIDENT said that some two years ago the Council organised a scheme and sent in the names of persons willing to give their services, but the War Office would have nothing to do with the scheme.

FIRM-NAMES.

The Exeter Association wrote protesting against the proceedings recently instituted under Section 17 against a registered man for improper labelling. It was suggested that a warning should be given in such cases.

Mr. NEWSHOLME : The case was a warning.

The SECRETARY : There was also a case in 1901.

Mr. CARTEIGHE : The letter had better be sent to the Law Committee for consideration.

OTHER BUSINESS.

The Oxford Chemists' Association expressed the opinion that a travelling inspector should be appointed to see that the Pharmacy Acts are not being evaded, the duty at present incumbent on divisional secretaries not being an acceptable one.

The Scotch Education Department conveyed information respecting the leaving-certificate examination for 1910.

The PRESIDENT said a number of complimentary cards had been received from kindred societies in reply to a season's greeting card he had sent out.

This concluded the public business.

After our representative left, the "Journal" and Publications Committee reported the progress that has been made in the revision of the British Pharmaceutical Codex. A Committee of Revision was appointed, consisting of Mr. C. T. Allen, Mr. H. Finnemore, Mr. F. H. Gamble, Mr. Frank Goldby, Mr. W. F. Gulliver, and Mr. E. F. Harrison. Professor W. E. Dixon is to act as "consulting pharmacologist," Mr. Edmund White as representative of the Council, and Mr. W. J. U. Woolcock as Secretary.

The report was adopted.

Society of Chemical Industry.

LONDON SECTION.

A MEETING of this section took place on January 3 at Burlington House, Piccadilly, W., Dr. J. Lewkowitsch in the chair.

NEW SECRETARY.—The Chairman announced that Mr. J. H. Coste had been appointed Hon. Secretary in place of Mr. Julian L. Baker, who had held the appointment for the last six years. Mr. Coste then read the minutes of the last meeting.

THE LATE DR. LUDWIG MOND.—The Chairman next referred to the death of Dr. Mond, which took place on December 11, and said that biographies have appeared in the lay and technical Press regarding "this marvellous man, who has given so much of his life to scientific pursuits." Dr. Lewkowitsch mentioned also the magnificent bequests that Dr. Mond has made to the British nation in acknowledgment of the hospitality accorded him by this country for so many years. Continuing, the Chairman spoke of Mond's sulphur-recovery process, his soda process, Mond's power gas and nickel process, the mere mention of which conveys to chemists an idea of the immense amount of work it took to perfect the methods. It would be an interesting evening if some expert technologist would trace the progress of Dr. Mond's wonderful discoveries. Dr. Lewkowitsch then referred to Dr. Mond's services to the Society. It was through Dr. Mond that the Society of Chemical Industry was made a National Society instead of a Liverpool Society. When it was decided to start a "Journal," and the magnitude of the undertaking deterred the Council from beginning the work, Dr. Mond guaranteed the cost to the printer until the "Journal" became self-supporting. It was Dr. Mond who devised the classification of subjects in the "Journal," which has been adhered to ever since, although as the bounds of chemical science extended the classification has had to be added to. Through Dr. Mond's foresight the Society has become not only national but international. Started in 1881 with 290 members, it now has over 4,000. Dr. Mond had been foreign secretary of the Society, except during the time he filled the offices of president and vice-president, and he received the gold medal of the Society four years ago—the highest honour that can be conferred. The success of the recent International Congress of Ap-

plied Chemistry was due in a great measure to Dr. Mond, as he enabled the London Committee to make arrangements on a sound basis. On the motion of the Chairman a resolution of condolence with Dr. Mond's family was carried unanimously, the members upstanding. Dr. E. Divers also spoke.

Mineral and Chemical Industries.—Dr. Lewkowitsch then called upon Mr. Rowley to read a paper by Mr. G. T. Holloway on "The Relation between Mineral and Chemical Industries." The author was to have read the paper in October, but an illness prevented him. He was present at the meeting, but still unable to stand the strain of reading the paper and replying to the criticisms. It was on this account that Mr. Rowley officiated, and the author promised to reply in writing to the points raised in the discussion. The paper covered a wide field, being chiefly concerned with the minerals of which the earth's crust is composed, and began with some interesting estimates by Clark and Vogt of the relative proportions of the various minerals in the earth. The minerals chiefly occur as oxides, and after attention had been called to a classification of igneous rocks the influence of water, frost, oxidation, and "weathering" was referred to. The chief effect of the atmosphere is due to carbon dioxide, which although chemically is looked upon as rather inert, has a powerful action on alkaline rocks. The effect was likened to that of sodium carbonate, which converts the refractory silica into a soluble salt when they are heated together. Mr. Holloway briefly referred to the formation of fluorspar, which may be due to the ascension of gaseous fluorine from the earth's interior—a point which afterwards caused the experts to advance reasons against such a theory. The china clay and cement industries were mentioned, and then the lecturer rather startled his audience by stating that the garnet is quite a common mineral. He stated that 10,000 tons of garnets are ground up yearly as an abrasive material, the only fault being that the garnets are "off-colour." Some sandstones are quite soft and easily worked when freshly mined, but become in a few days very hard. This is due, it is considered, to the action of quarry water, a silicate solution. Diatomaceous earths were mentioned and their importance as abrasives and absorbents. Building-stones were further referred to in connection with action of lime in solution, the deposition of which accounts for the formation of many minerals. Magnesite and dolomitised limestone are probably similarly formed. Enormous quantities of bauxite (aluminium silicate) are employed in the manufacture of aluminium metal. The by-products of iron and steel manufactures yield phosphatic fertilisers, and the lecturer dwelt for some time on the various ores employed in iron-smelting. An interesting part of the lecture was that where suggestions for research were made. Mr. Holloway stated that the "red river" which conveys the slimes from the Cornish tin-mines to the sea, would probably yield many of the rare metals (tungsten, uranium, niobium, molybdenum, etc.) if systematically treated, and he suggested that some of the metals required to fill in the gaps of the periodic tables may be yielded by the "red river." The colour of topazes may be due, he suggested, to the radio-active elements, and then the fact that over 200 million gas-mantles are used annually pointed to the need of other sources of thorium than monazite sand. It may even be that the dream of the alchemist of the transmutation of the elements may not be so far out. It is a curious fact that certain elements always occur together, lead is never free from silver, cadmium and zinc are always associated, and antimony ores invariably contain gold and silver. The last part of the lecture referred to the importance of the sulphide minerals both in nature and chemical industry. It is probable that iron sulphide oxidising to sulphate, which precipitates gold, accounts for some gold deposits. Gold-mining has led to the production of chemically pure potassium cyanide at a tenth of the price charged a few years ago and the utilisation of the cyanide residues of the gasworks. A slight reference was made to bismuth, the lecturer stating that thousands of tons are yearly volatilised in the air in copper-smelting.

The Discussion ranged over a very wide ground, Mr. How, Curator of the Jermyn Street Museum, Mr. Walter F. Reid, and Professor Lewis being the principal speakers.

Information Department



The object of this department is to supply our subscribers with the names and addresses of manufacturers and agents, or other business information which they may be in need of. Inquiries should be sent by post, addressed to the "Information Department of 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

Inquiries in regard to dispensing, legal, practical, technical, or other pharmaceutical subjects should be addressed to The Editor, who will reply to them in the Correspondence Columns.

Information Wanted.

We would be obliged if readers would reply, by postcard or otherwise, to any of the subjoined inquiries. Replies should be addressed to the "Information Department of 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

30/73. Address of the makers of Dr. Paull's Pills.
31/2. Where can the "Salix" sprayer be obtained?
34/27. Proprietor of "Pax" powders for headache?
35/61. Where can "Ursell" Satin Skin Soap be obtained?
31/8. "Kinto Herbal Tea": address of present proprietors.
33/45. Where can "Duke of Lancaster Bouquet" be obtained?
32/13. "Dr. Greaves' Ammoniated Tabs": where obtainable?
29/42. Continental makers of elastic stockings and surgical hosiery.
33/52. Address of T. K. Taylor, manufacturer of india-rubber enemas.
35/18. Who make cup jacket-papers for packing capsules in boxes?
31/69. Where can "Clear Head" nasal inhalers ("Sehnupsenlyra") be obtained?

Information Supplied.

In reply to inquiries, information has been sent during the past week to subscribers and others by our Information Department in regard to the following subjects. The information will be repeated to any others requiring it who send a stamped and addressed envelope for the purpose to the Information Department as above.

"Ektogan," supply (31/74).
Elastic hosiery, actual manufacturers (British) (29/42).
Godfrey's Extract of Elderflowers, proprietors (35/25).
Gooch's kettle-holder splinting, makers (33/44).
"Jicky" perfumes, makers and agents (26/10).
Kieselguhr, Norwegian (30/17).
Martin's special essence of Pennyroyal, maker (35/25).
Pomade Divine, makers (35/25).
"Ruby" dog medicines, maker (31/45).
Ruberoid, makers (30/34).
"Sanoper" soap, makers (32/11).
Seekamp's lozenges, makers and suppliers (31/32).
Seed merchants, wholesale (29/19).
"Shavo" makers (28/63).
Shop-round labeller (30/11).
Silver goods, suppliers (30/14).
"Suberit," makers and agent (35/27).
Valaze cream, proprietors (35/25).

Yokohama Trade.—In the course of a British Consular report on Yokohama for 1908, it is stated that "there was little difference in the import of drugs and chemicals during 1908. The usual troubles of excessive credits, etc., have been in evidence, while other difficulties have also manifested themselves. The putting into force of the revised Pharmacopœia was originally intended for January 1, 1908, but the difficulties experienced by merchants from the absence of any foreign translation led to representations for a delay, eventually resulting in a postponement till July 1. Nevertheless, troubles continued, the methods of the laboratory bureau in examining, stamping, certifying, etc., meeting with considerable complaint from merchants. It is hoped that the grounds for difference will soon be removed." The value of the imports of drugs and chemicals into Yokohama was 694,554*l*., against 686,840*l*. in 1907 and 625,930*l*. Of the foregoing 298,000*l*. represented purchases of ammonia sulphate (85 per cent. British), 44,846*l*. for soda nitrate (from Chili), 37,823*l*. for caustic soda (mostly British), 27,226*l*. for soda-ash (mostly British). "Other drugs, etc.," were represented by 286,660*l*.

Observations and Reflections.

By Xrayser II.

The Drug-trade Fifty Years Ago, as your last week's contributor so pleasantly reminds us, had its compensations when compared with the pharmacy of to-day. Perhaps also it had its drawbacks, but we were more easily satisfied in those days, and there were not the business rush and worry that are now the prevailing characteristics. Your correspondent speaks of prices, and mentions quinine. I remember when it stood at 17*s.* an ounce for a brief period, and I think I have bought it as low as 7*d.* Once when quinine dropped, for the last time as it turned out, to 4*s.*, which was regarded as a very low price, a chemist neighbour who had a hundred pounds to spare thought he would "put it in quinine." He bought 500 oz. Quinine never again touched 4*s.*, and the last time I saw my friend, shortly before his death, he still "held on," and quinine was then standing at 1*s.* Another neighbour thought he would turn an honest penny when bismuth dropped to 8*s.* some fifteen or twenty years ago. He bought a hundredweight, but bismuth still fell. He parted with it at 6*s.*, never having taken delivery. Examples could be multiplied, and some brilliant returns quoted by

Lucky Speculators —for speculations such purchases are when indulged in by retailers. They can never tell how the markets are going, and can only reason from past experience what may happen in a future which may not repeat what has happened in the past. New conditions are constantly coming into play. Quinine is cheap because a constant supply of the raw material has been ensured, and it is as constant in quality. Fifty years ago the supply was uncertain, artificially controlled, and the quality naturally variable. We have now fairly complete knowledge of what "bark" is, what it can be produced at, and how much can be used. It is a competitive article, and any rise in market-value is bound to be shortlived, for the bark-growers and holders would be the first to try to get advantage of the rise by marketing bark, then down go prices, as many investors in quinine know by sad experience. Fortunes are made and lost by speculating in produce, and the losses are by men who are supposed to be in touch with all the sources of information about what they are buying. The retailer rarely is so well-informed, and the risk to him is proportionate to the extent of his ignorance of facts that influence the future, therefore his chances of losing are greater.

The Historical Notes culled last week from "La Pharmacie Française" are exceedingly interesting, but the French writer falls into one or two rather obvious errors. Diascordium, we are told, recalls the famous Dioscorides; but unless some kind of pun is intended it is difficult to see how it does this. Surely not because Dioscorides mentions scordium among hundreds of other drugs? The writer seems to imply that the name "diascordium" is in some way connected with that of the ancient physician, though a moment's thought must have shown him that this is not the case. "Diascordium" is compounded of *dia* and *scordion*, and means simply "made of scordium." It is not a very good descriptive title, seeing that the electuary contained nineteen other ingredients, of which opium was one, being present in the proportion of 1 gr. to 5 dr. The idea that Dioscorides invented the preparation—if this is what is meant—is equally erroneous, this honour being due to the Italian physician Hieronymus Frascatorius, after whom it was originally named *Confectio Frascatorii*. A second blunder in the notes referred to is probably a mere slip, but it is a strange one. It was with dittany, says the writer, that Venus healed her son Anchises from the effects of a poisoned arrow. The fact is, of course, that it was Æneas, the son of Venus and Anchises, whom his mother thus healed, as related by Virgil, "Æneidos," xii., 411-424, which Lonsdale and Lee thus translate:

> "Hereupon his mother, Venus, distracted by her son's unmerited agony, plucks from Cretan Ida a stalk of dittany with downy leaves and feathery purple bloom: well known is the plant to the wild goats, when winged arrows chance to fix deep in their bodies."

The passage is too long to quote fully, but the portion given is interesting as referring to the old belief that merely by eating dittany the wounded animal could shake out the weapon that had hurt it. This, however, refers only to the dittany of Crete (*Origanum Dictamnus*), not to our English dittany or dittander (*Lepidium latifolium*), or to the bastard dittany of the old herbalists. The peculiar action of arthanita ointment, for which Baumé is in these notes cited as an authority, was accepted as proved before his day. Culpeper says: "The stomach being anointed with it, it purgeth by vomit; the belly anointed with it, it purgeth by stool."

One of the Most Useful Features of the *Chemists' and Druggists' Diary* of this year is the Dictionary of synonyms and trade-names, which, though ostensibly confined to the most modern words, and confessedly only an instalment, is nevertheless surprisingly full within its limits, and comprises a good many words that are only relatively modern. Some of them, indeed, are not modern at all. "Jusquiamus," for instance, is a very old form of "hyosciamus," formed by dropping the breathing (*h*) and changing the *y* into its phonetic equivalent *i* or *j*. It occurs as "iusquiamus" in the Alphita glossary (*circ.* 1465), and appears to have been first used by Palladius in the fourth century A.D. There are in the Dictionary a considerable number of words that will probably be new, or at least unfamiliar, to many readers, and it would be amusing at a Christmas party of pharmacists (were such a gathering conceivable) to propose a set of questions upon it. The first might be, "What is Pontius Pilate?" followed by such items as "Fresh Liquor" and "Pottery Sulphur." Some of the definitions given would not be accepted everywhere without comment or addition. Creosote, rather than Ol. Picis, is usually meant when "Oil of Tar" is asked for, Ol. Picis being generally known as "Spirit of Tar"; and "Trooper's Ointment" is much commoner than "Soldier's Ointment" as a name for ung. hyd. mit. "Ottle" should be "Hottle" (*see* Halliwell); Lign. Santal. Rub. is in many places given for "Red Lavender"; and in the North "Sal Ammoniac" means liq. ammoniæ as well as ammon. chlor. Several local names are not included at all, among them "mercury" for arsenic, which is very common in Lincolnshire and neighbouring countics; and "Red Borax" for bol. armen. "Oil of Amber," too, for Ol. Succini is missing, and it is curious that "Carrageen" should be left out when "Cetraria" is in. The utility of the Dictionary is not, however, seriously affected by a few such omissions as these; nor must it be supposed that the bulk of it consists of such comparatively trifling items as have been referred to. It consists mainly of scientific synonyms, as a ready guide to which it will be of great value to every pharmacist whose memory is not encyclopædic, and whose time is of importance.

Standardisation of Coal Tar Disinfectants.

THE "Lancet" Commissioners have shown that, by their test, "Sanitas Bactox" ranks equally with one other preparation as the *highest* in germicidal power of the *homogeneous* group, and takes *first* place alone, when the cost is compared on a basis of efficiency.

By the standardised *B. Typhosus* test, however, "Sanitas Bactox" shows a co-efficiency of 20, whereas the other disinfectant only shows 15.

Again, "Sanitas Okol" takes first place in the group of *Emulsified* Coal Tar preparations, both with respect to efficiency and cost.

The Report of the "LANCET" Commissioners is open to a good deal of criticism, and the chemical work is grievously at fault.

We will send a note of our criticisms and copies of our new pamphlet (when ready) entitled "The Truth about Disinfectants and their Relative Values" on application.

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Editorial Articles.

Pills.

ARE Britishers peculiar in their love for pills? The British Pharmacopœia contains formulæ for twenty, the French Codex fifteen, the United States Pharmacopœia fourteen, and the German four only. The "Codex" published by the Pharmaceutical Society contains sixty-eight, Squire's "Companion" about a hundred, and Martindale's "Extra Pharmacopœia" a few more, these three embracing official formulæ, while "Pharmaceutical Formulas" contains about 180, none of them being in the British Pharmacopœia. Remington's "Pharmacy" contains not quite a hundred. The paucity of official pills in Germany is not a measure of their use, for "Hager" and other German commentaries rival the British in number, the Supplement to "Hager" alone containing between sixty and seventy formulæ. There is no other class of galenical so numerically strong as the pill in our country, and, as far as we are able to judge, no people are so addicted to pill-taking as are Anglo-Saxons—American and British. Twenty years ago, when postcard competitions were in vogue, we asked our subscribers to estimate how many pills are swallowed in the British Isles daily, the estimates being based on sales in 10,000 pharmacies. The average came out at 5,643,961 daily. Seven years later an evening contemporary estimated the consumption of proprietary pills at 20,000,000 a week, and of others the same, giving one pill per week to every man, woman, and child in the United Kingdom. At the beginning of the eighteenth century the pill was not a favourite form for administering medicine; there is a tradition that apothecaries were wont to prescribe for household servants free of charge, and it was pills they gave, draughts and other more expensive forms of medicine being reserved for "the families of the nobility and gentry." At that time the pill was ancient; who originated it we cannot tell, and famous and popular medicines included many pills, but they were by no means leaders. Thus out of the 550 medicines scheduled in the Medicine Stamp Act, 1812, the pills numbered eighty-nine, and few of them were most popular medicines. To-day the leading proprietary medicine is a "patent" pill, and among the dozen most popular proprietaries five or six are pills. Nevertheless, the estimate of 1897 that half the pills consumed are proprietary probably does not hold now; the consumption of "patents" has no doubt increased, about 42,000,000 stamped packets of all kinds having been sold in 1907-8,

and if half of these were pills containing on the average fifty in a packet, the weekly consumption is less than 20,000,000. During the past dozen years the consumption of the "private" pill and the household pill has greatly increased, and their nature and number can no longer be judged according to Pharmacopœias and formularies, but by pill-manufacturers' price-lists. It is one of these which we have received this week from the British Drug Houses, Ltd., that has given rise to these observations. It contains 1,938 formulæ for pills used for human ailments! This, we should think, is a record. It combines official and well-recognised unofficial formulæ, as well as private formulæ and known, admitted, and approved remedies given in pill form. The number may be regarded as not far short of all the stock pills that are really taken by the British public, but if we add 25 per cent. we get the round figure of 2,500 to represent the kinds in demand in different places daily, or at different seasons of the year. Yet pills are but one form of medication—tablets, powders, and lozenges, among solids, follow them closely, and there is a host of liquid galenicals. All put together must surely give every man, woman, and child a dose of medicine every day of the year. This is going on year in and year out, and represents such a mass of custom to the chemist that it seems the height of folly to question the future of retail pharmacy.

Java Cinchona.

In our issue of December 25 (p. 965) we gave an account of the proceedings at a recent meeting of the Preanger Cinchona Bond, at which it was decided to issue a circular to cinchona-planters in Java, calling attention to the present position of the proposed Cinchona Syndicate and the inimical attitude of the Bandong Quinine Factory thereto. According to the current number of the "Java-Bode," this circular has now been issued. It reviews the recent history of the cinchona-market, pointing out that, owing to over-production, the price of bark has fallen steadily for many years. This fall in price was continuous until the opening of the Bandong factory, which at first worked in opposition to European and American quinine-makers, and bought bark from planters at a fixed and remunerative price. In recent years, however, the directors of the factory have found that, owing to the low price of bark and the great popularity of their quinine tablets in the East, they are in a position to make huge profits, and they have disregarded the interests of planters more and more, and this attitude has finally culminated in their refusal to join the proposed syndicate, which has for its main object the maintenance of a minimum price of six cents per unit for bark. The Bond proposes that, if this attitude is persisted in by the Bandong factory, planters should refuse to sell bark to it, and that, if necessary, they should start a new factory of their own in Java. It now appears that since this circular was issued to planters, Heer van Leersum, the director of the Government cinchona-plantations in Java, has received a letter from the factory directors. The contents of this letter he has refused to make public, on the ground that it is an official document; but it is believed that the letter indicates that the directors are more favourably disposed towards the proposed syndicate than has been generally supposed. The possibility of raising the price of bark by joint action is not the only problem agitating planters in Java. We referred briefly in our issues of October 16 (p. 625) and November 13 (p. 751) to the lack of uniformity in results obtained by well-known bark-analysts, and this matter is discussed by Heer van Riemsdijk in a letter published in "De Indische Mercuur" of December 21 last. In the course of this he gives data showing how important this question is from a planter's point of view. Recently he consigned a parcel of 10,000 kilos. of bark to the Bandong factory. Samples of this bark were analysed by van Ketel, who returned 8.54 per cent. quinine. A control analysis by Moens and van der Sleen showed 9.84 per cent. quinine. The factory analysis gave only 8.09 per cent. of alkaloid, while van Leersum, who was called in to arbitrate, found 8.1 per cent. In a second similar parcel van Ketel found 9.50 per cent., Moens and van der Sleen returned 9.81 per cent., while the factory and van Leersum reported 8.71 per cent. Heer van Riemsdijk produces each year about 360,000 kilos. of bark, and he calculates that if van Ketel's figures are correct he loses about 18,000 florins annually, while if Moens and van der Sleen's results are taken his loss is about 39,600 florins. Commenting on van Gorkom's statement that no analyses of cinchona are published in the London market, Heer van Riemsdijk states that British quinine-makers buy bark on their own analyses, but these appear to be satisfactory to brokers and planters, since no complaints appear to be made. Van Gorkom, referring to this letter in the same journal, says he is in agreement with Heer van Riemsdijk on the main question of the need for a standard method of analysis, but doubts if this will be arrived at by the method of offering a prize, which is the plan adopted by the Preanger Cinchona Bond on Heer van Riemsdijk's suggestions; and adds that it would be interesting to hear what the private analysts to whom Heer van Riemsdijk sent samples of his barks have to say on the general question of methods of analysis.

Company Pharmacy.

Mr. Warnford Davis, Chairman of Parke's Drug-stores, Ltd., speaking to the shareholders at the annual meeting last week, made rather a significant statement regarding the competition which the company feels that is brought to bear against it by another company. No names were mentioned, but the close proximity in parts of suburban London of Boots' shops with Parke's Stores supplies a coincidence which is more than interesting in view of Mr. Warnford Davis's remarks, which were as follows:

"I have before now on several occasions called your attention to what I can only describe as the intensely selfish policy of some of our opponents in business, who, no matter where we may go to open a branch, come and sit as close to us as they can, and whereas we never have the advantage of seeing their figures, we are practically certain that we both lose. What can we do? We cannot go to those opponents and say they must not do such a thing; they are well within their rights in doing so, and all that we can do is to grin and bear it, and fight against the opposition as well as we know how. Beyond that we cannot do anything. During the last few years there has been a terrific amount of this sort of thing going on, and the net result of it is that in their anxiety to get trade they cut down their prices to a ludicrous extent. Very often in those places the manager of the shop is his own master, whereas with Parke's we have not only to pay a manager, who must be the best man we can get—and he is not an inexpensive luxury—but all the assistants as well. The public do not thank people for what I can only describe as an insane cutting down of prices."

To the individual chemist such utterances are naturally of great significance. The pharmacist who works for himself, with his own brains and in personal relations with his customers, who have respect for his abilities and confidence in his medicines, stands to win in the end, but he is subject to the influence of "insane cutting of prices" which companies exercise the one with the other. In the meantime companies are suffering just as much as individual chemists.

We have before us the published figures for five of the leading companies, and we tabulate three of these to show how the profits have fluctuated during the past decade :

Year	Boot's (Eastern)		Lewis & Burrows		Parke's	
	Net Profits	Per Shop	Net Profits	Per Shop	Net Profits	Per Shop
	£	£	£	£	£	£
1901	21,091 (89)	237	2,300 (20)	115	4,173 (27)	154
1906	24,262	—	2,311 (24)	96	5,043 (34)	173
1907	23,003	—	3,506 (24)	146	5,015 (34)	177
1908	23,164 (98)	236	3,597 (24)	150	3,746 (34)	110
1909	23,236 (102)	227	1,493 (24)	62	3,180 (34)	94
Subscribed capital ...	£230,000		£30,080		£73,632	

Figures in parentheses are the numbers of shops.

Taylors' Drug Co., Ltd., showed 433*l.* loss in 1906, a net profit of 9,855*l.* in 1907, 6,806*l.* in 1908, and 1,834*l.* for nine months of 1909. Kelly's Directory for 1908 shows that this company had then seventy-eight shops, so that the average profit per shop in that year was 86*l.*, and last year it would be 31*l.* Messrs. Henry Hodder & Co., Ltd., showed 3,385*l.* net profits in 1902, 3,123*l.* in 1906, 3,137*l.* in 1907, 2,257*l.* in 1908, and 2,217*l.* in 1909. These figures also show steady diminution of profits. The most obvious moral deducible from the facts is that the country is overstocked with public companies carrying on business as chemists and druggists, and any similar ventures offered to the public would have, in view of the general diminution of profits, the greatest difficulty of flotation. The tabulated figures show that a Parke's shop is worth 2,190*l.* on the average, and yielded 4.3 per cent. last year; a Boots' shop is worth 2,750*l.*, and yielded 8 per cent.; and a Lewis & Burrows' shop 3,336*l.*, and yielded 1.8 per cent. These results indicate that company pharmacy is financially not so profitable as personal pharmacy, for the pharmacist who can command 2,000*l.* of capital for his business has, as a rule, little difficulty in making 5 per cent. on his capital, and from 200*l.* upwards for his own services in directing the business.

Prescriptions and Patients.

This is the title of some correspondence which has appeared in the "Daily Mirror" this week, and which arose through "A Sufferer" complaining that he got a prescription incorrectly dispensed at a chemist's shop. He strongly animadverted on chemists as a body, and to this there has been a varied response. Mr. Richard Bremridge was among the writers, and he said :—

"I notice a letter suggesting that there is no remedy to prevent 'dishonest chemists' omitting ingredients in making up prescriptions. I am not concerned with the ethics of the case, as it is too well known that no member of the Pharmaceutical Society could be found to come within the terms of your correspondent's complaint. All I want to point out is (*a*) that most, if not all, of the prejudice suffered by the public is inflicted by persons who are not chemists; (*b*) that every member of the public has a remedy under the Food and Drugs Act or under the Merchandise Marks Act. I may say, in conclusion, that if 'A Sufferer' has been misled into having prescriptions made up by a person not technically qualified to do the work, I shall be glad, on having the matter reported to me, to make investigations with a view to ascertaining whether any infringements of the Pharmacy Acts have been committed by the vendor."

A Westcliff-on-Sea correspondent demurs to a statement that "chemists have the reputation of being the most conscientious traders existing." He says that "in many instances he has had occasion to challenge the genuineness of the medicine which he gave prescriptions for." In this connection we have received several communications regarding the sad fatality in South-West London, due to a medical practitioner accidentally dispensing solution of strychnine for chloroform water. It is a good argument, say our correspondents, that dispensing should not be done by doctors; but surely there is room here for the charitable reflection that the mistake is one embraced by the adage, "It is human to err." We want dispensing to be done by pharmacists because it is best for prescribers and patients, and because where it is done in well-equipped pharmacies there exist all sorts of precautions for the prevention of human error. The jury in the case referred to asked the coroner to bring to the notice of the Home Office the facts of the case in order that legislation providing for the use of a distinctive form of bottle for poison might be brought about. This is more to the point. Such regulations are provided under the Pharmacy Acts for persons and companies who carry on the business of chemist and druggist who cannot keep strychnine solution under the conditions that are legal for doctors, who are by law exempt from these reasonable error-preventing regulations. There is every reason why the law should be extended to all places where poisons are dispensed.

Apothecaries' Society's Bill.

We are indebted to Mr. Upton, clerk to the Society of Apothecaries, for a copy of the private Bill which the Society is promoting in Parliament next session. Broadly, the purpose of the measure is to amend the Apothecaries Acts so as to empower the Society to grant diplomas in sanitary science, public health, State medicine, school hygiene, or tropical medicine, and in dentistry or dental surgery, and to admit women to the examinations for the diplomas provided in the Bill. In a lengthy memorandum prefacing the Bill it is pointed out that owing to the Society not being mentioned in section 21 of the Medical Act, 1886, and its Charter and Acts not giving authority, the Society cannot grant diplomas in sanitary science, and the General Medical Council cannot register them. The third of the fourteen clauses in the Bill is to provide the necessary power, clause 4 giving the power for appointment of examiners, who will constitute the "Board of Examiners in Sanitary Science and Public Health of the Society of Apothecaries." The fifth clause empowers the General Medical Council to register the diplomas granted by that Board. Clauses 6 to 9 deal with the power to grant diplomas in dentistry and authorise the Society to appoint a Board of Examiners in Dentistry and Dental Surgery, whose certificates will entitle the holders to registration under the Dentists Act. Clause 13 proposes to admit women to the examinations mentioned in the measure, and to receive the diplomas or certificates. There is nothing in the Bill which directly affects pharmacy.

Prescription-writing.

A contributor to the "World's Work" relates how he obtained a prescription from his medical attendant which was written "in two Latin words unintelligible to the layman." When the druggist was dispensing it the patient noticed that it was labelled (apparently a proprietary article), and the druggist was to charge 2*s.* 6*d.* for the amount ordered in the prescription, but after conversation with the customer gave him the whole bottleful for 4*s.* The next time the patient saw the doctor he told him what he had done :

"You were very right," said the doctor. "Did I prescribe the thing in this way? It was the force of habit."

"Don't you think that an intelligent layman might be

trusted with some knowledge of what goes up his nose or down his throat?"

"The whole system," he replied, "is foolish and out of date—of course, of course."

The "World's Work" observes that "this law is out of date. The result is—in the case of botany—that knowledge of it is immensely more difficult to disseminate; and, in the law and particularly in medicine, a vast amount of ignorance is perpetuated, quackery is encouraged, and a lot of humbug kept going—a vast lot of it."

These remarks strike us as arrant nonsense both as to fact and comment; but the more important matter is the remark attributed to the doctor. He is one of a class which is averse to self-prescribing, and nothing done by doctors has contributed so much to this as giving prescriptions the nature of which is apparent to patients, who accordingly become buyers of the articles without presenting the prescriptions. The use of Latin in prescriptions requires no defence; many generations of service have proved its advantages.

"On Substitution."

"A. K. S." writes under this title in the "Weekly Dispatch" of January 2, half-a-dozen paragraphs of the usual style which come to the surface now and then, but he begins with an unusual question, viz.:

"Do you object to your chemist offering you some preparation of his own when you ask for something for a cold, a pain, or disorder of any kind, rather than something you are familiar with through the agency of public advertisement? You should. The chemist's preparation may be 'just as good,' but you are justified in being doubtful."

It looks as if "A. K. S." had sub-edited his "copy" badly, for there is no reason in the world why the chemist should not give his own preparation when he is asked for something for a cold. That is a common every-day request which is usually complied with, and we have heard of chemists who have been good enough in such circumstances to give a proprietary article, not their own. "A. K. S.'s" advice to all and sundry is:

"What I want you to do is to set yourself against chemists who continually offer you substitutes for that which you ask for by name. Say to them plainly, 'If you persist in your practice I shall go elsewhere.' If you are compelled to go elsewhere say to the new chemist why you left your old one. Get from him a pledge that he will serve you as you wish to be served, and keep him to his word."

The writer goes on to speak about a proprietary overcoat, and things that are not advertised in the "Weekly Dispatch." Why these should come under substitution we cannot tell, but "A. K. S." need not worry about chemists and substitution; as a body they are honourable men, who give the public what they want. It is the flagrant and isolated infractions of this rule which should be exposed, and these should not be written up to reflect upon the class.

Spurious Apomorphine Hydrochloride.— With reference to Dr. Frerichs' observation on the occurrence in the German market of apomorphine hydrochloride, which, he says, is a tri-morphine salt (see *C. & D.* supplement, December 25, 1909, p. 88), Drs. Harnack and Hildebrandt, of the Halle Pharmacological Institute, write to the "Pharm. Zeit.," 1910 p. 6, saying that the spurious apomorphine hydrochloride is a mixture of apomorphine with a secondary base, which they consider to be trimorphine, the action of the preparation not being emetic, but rather of the nature of morphine and calculated within certain limits to suspend the action of the apomorphine. The authors agree with Frerichs as to the necessity for more exact tests for apomorphine in the pharmacopœia, and consider the one given by him to be good as a test of purity, but they criticise his observations regarding crystallisation of the salicylate. They state that failure to crystallise is in the case of the "spurious" salt due to the presence of trimorphine. Experimental data are adduced in proof of this. It is also shown that one of the "spurious" salts referred to by Dr. Frerichs consisted of 6 parts of trimorphine and 1.5 part of apomorphine. They are inclined to the belief that this is not a mixture, but a double salt of the composition $(C_{17}H_{18}NO_3.HCl)_3,C_{17}H_{17}NO_2HCl$, which indicates 24 per cent. of apomorphine hydrochloride. It is further pointed out that the formula is that of an apotetramorphine, and in nature similar to the products of Matthieson and Wright and Wright and Mayer (1872).

Reviews.

A Text Book of Materia Medica, being an Account of the more Important Drugs of Vegetable and Animal Origin. Designed for Students of Pharmacy and Medicine. By HENRY G. GREENISH, F.I.C., F.L.S. $9\frac{3}{8} \times 6$ in. Pp. 640, with 269 illustrations. Second Edition. 15*s.* net. (London: J. & A. Churchill.)

THE alteration in title from "An Introduction to Materia Medica" indicates the extension of the scope of the original work. The subject-matter of the book is essentially the same, but new features, alterations, and additions account for the increase of 130 pages. Of the first-named, the chapter on the history and commerce of drugs is an interesting outline, including also the routes by which drugs arrive, the forms of the original packages, and the London drug-auctions. It forms an adjunct completing and co-ordinating the details given under the monograph for each drug. The common-sense arrangement in sections (of which there are twenty—viz., leaves, flowers, fruits, etc.) is adhered to. Each of the 243 drug descriptions is complete in itself, the biological origin and geographical source being followed by a detailed description of the drug, its constituents, microscopical characters, assay, varieties, substitutes, and uses. The whole forms a lucid account which is free from redundancy and sufficiently succinct, without being a dry statement of facts, to maintain an absorbing interest on the part of the student. A prominent feature is the isolation of the principal diagnostic characters in a manner which the reader can retain as memory "tags" on which to hang the fuller characters and comparisons of the drugs. The numerous illustrations will aid in forming these mind-pictures, the additions aptly filling in some of the gaps, such as rhubarb, capsicums, and cardamoms, in the first edition. The collation of the general characters at the head of each section is another innovation which will serve the student as a guide to the main outlines of classification and the general characters to be sought for and compared. The introduction of assay processes and microscopical characters appears to be outside the scope of such a work, but as regards the former, their inclusion is an advantage to the advanced student, who would otherwise have to search a wide field to cover this desirable information; also, although microscopical characters require a work to themselves, a short *résumé* of the important ones is undoubtedly in place and often essential, as an appendage to the detailed description, as in the case of *Atropa Belladonna*, and its substitute, *Phytolacca decandra*. The numerous intercalations and additions to the subject-matter show careful revision, even including the recent work on Japanese aconite. However, the results of Power's and Rogerson's investigations on the chemistry of jalap resin are omitted, possibly being too late for inclusion. A few deficiencies are still evident. The monograph on eucalyptus-leaves (p. 49) is too meagre. The leaves of *Eucalyptus globulus* are not official, only the oil which further may be distilled from the leaves of other species of *Eucalyptus*. Also the greater part of the eucalyptus oil of commerce is not derived from *Eucalyptus globulus*, while the error that the leaves of this species contain 3 to 5 per cent. of essential oil (instead of less than 1 per cent.) is perpetuated. Veronese orris-root (p. 438) is wild, not cultivated. Croton seeds (p. 213) are practically entirely shipped from Ceylon. The official grey "Jamaica" sarsaparilla (p. 441) is exported from Bocas del Toro, and is transhipped chiefly from Hamburg and also at Havre, and does not come to England in quantity *via* New York We suggest that in the next edition oils (essential and fixed) should be more fully treated. The book will undoubtedly retain and improve upon the position which the first edition rapidly acquired in the British Empire as a standard work for pharmaceutical students.

The Otago University Medical and Dental School Hospitals Pharmacopœia. Compiled by ALEX. R. FALCONER, B.A., B.Sc., M.B., etc., and H. PERCY PICKERILL, M.B., L.D.S. $5 \times 3\frac{3}{4}$ in. 90 pp. (Dunedin, N.Z., 1909.)

SIXTY-TWO PAGES of this useful compilation are devoted to formulæ—general, for children, and dental. The rest

consists of three appendices, in which measures and weights, temperatures, foods, baths, hygiene, and allied subjects are treated. The booklet is compiled from various sources, and presents few features which pharmacists would consider novel, but some of the formulæ deserve quotation :—

Emulsio Olei Morrhuæ.

Olei morrhuæ		℥xxxij.
Pulveris tragacanthæ compositæ		ʒiv.
Spiritus chloroformi		ʒij.
Tincturæ benzoini (B.P.C.) ...		ʒss.
Olei caryophylli,		
Olei cassiæ	aa	ʒss.
Syrupi		ʒxvj.
Calcii hypophosphitis,		
Sodii hypophosphitis ...	aa.	ʒj.
Aquam ad		ʒlxiv.

Mix the tragacanth with the spirit of chloroform and add 20 oz. of water, then add the cod-liver oil gradually, thoroughly emulsifying after each addition. Dissolve the hypophosphites in the remaining water and add to the mixture; then mix the tincture and essential oils together and add carefully. Lastly, introduce the syrup and mix thoroughly.

Linctus Heroinæ Compositus.

Heroinæ hydrochloridi	gr. $\frac{1}{16}$
Syrupi codeiæ	ʒss.
Syrupi pruni virginianæ	ʒss.

One teaspoonful occasionally.

A sedative cough linctus

Linimentum Cantharidis cum Ammonia.

Olei amygdalæ	ʒvj.
Liquoris ammoniæ fortis	ʒiij.
Glycerini	ʒiij.
Tincturæ cantharidis	ʒiss.
Spiritus rosmarini	℥xx.
Aquam ad	ʒiv.

A hair stimulant.

Mistura Benzoini Composita.

Tincturæ benzoini compositæ ...	℥xx.
Tincturæ tolutanæ	℥xv.
Vini ipecacuanhæ	℥v.
Mucilaginis acaciæ	ʒj.
Infusum senegæ ad	ʒss.

A tablespoonful three or four times daily.

Useful in chronic bronchitis with excessive sputum.

Applicatio Carbolici et Resinæ.

Acidi carbolici	ʒij.
Resinæ	ʒij.
Spiritus vini rectificati	ʒiv.

Sedative dressing in localised odontalgia. To be applied on cotton wool mixed with an equal part of zinc oxide.

Injectio Cocainæ.

Cocainæ hydrochloridi	gr. iv.
Acidi salicylici	gr. ss.
Aquam ad	ʒj.

For use in extracting teeth—10 to 30 minims for each tooth.

Injectio Eucainæ.

Beta-eucainæ	gr. viij.
Adrenalin chloridi	℥xx
Aquam ad	ʒj.

For use in extracting teeth—10 to 30 minims for each tooth.

The Pharmacopœia formulæ may become familiar to New Zealand pharmacists, "M.D.S.P." being the abbreviation to be used in prescriptions. It is a worthy little book.

New Books.

Cunliffe, H. *Weights and Measures: The Inspectors' Year-book.* 5½×3½. Pp. 352. 2*s.* 3*d.* net, post free from Mr. Howard Cunliffe, Council House, Smethwick. [This useful publication has grown from the "Inspectors' Pocket Directory" to its present form. The directory is retained as the principal feature. It gives particulars about those entrusted with the inspection of weights and measures in the boroughs and counties of England and Wales and Scotland. The Acts and Regulations are fully treated, all the Board of Trade information being presented in an orderly and concise manner. The last ninety pages consist of writing-paper for use as a pocket diary and memorandum book. The book is bound in limp leather, with gilt edges, and is a credit to the compiler and publisher.]

Festivities.

Seasonable Celebrations

At the Wellcome Club and Institute, Dartford, comprised a general party and dance in the large gymnasium on New Year's Eve, and the annual Burroughs Wellcome & Co. staff party on New Year's Day. The staff party was held in the Club House, the hall, staircase, and gallery being tastefully decorated. The festivities consisted of dancing interspersed with dramatic and musical items and games. Among those present were Mr. G. E. Pearson (general manager), Dr. H. A. D. Jowett (works manager), and Mr. R. Clay Sudlow (treasurer).

Representatives' Dinner.

The directors of Messrs. Allen & Hanburys, Ltd., entertained their travelling staff to dinner at Pinoli's, Wardour Street, on Thursday evening, December 30. Mr. W. Ralph Dodd presided, and was supported by Mr. F. Capel Hanbury. The company included Dr. Brunt, Messrs. Bradbury, Greig, Brindley Grice, Clenyg Jones, King, Henry Lewis, Lynn, Marsh, W. J. Petty, Riches, Rickford, Martin Roberts, Salter, Seymour, Sidery, Swinburne, and Trussell. After dinner and the toast of "The King," the health of the directors was proposed by Mr. Swinburne, and responded to by Mr. Dodd and Mr. Capel Hanbury. The Chairman then proposed the health of the representatives, Messrs. Jones and Petty responding. A most enjoyable musical programme was gone through, Dr. Brunt, Messrs. Brindley Grice, Clenyg Jones, Henry Lewis, Sidery, and Swinburne singing, and Mr. Petty accompanied.

A Semi-jubilee Dinner.

On Saturday evening, January 1, Mr. Robert W. Greeff entertained the staff of Messrs. R. W. Greeff & Co., 20 Eastcheap, London, E.C., to dinner at the Trocadero Restaurant, on the occasion of Mr. W. G. Smith completing twenty-five years' service with the firm. Mrs. Greeff and her daughters, as well as the wives of the married members of the staff, were also present, including Mrs. Smith and Mrs. A. J. Thompson. After an excellent dinner and the loyal toasts, Mr. Greeff proposed "The Guests of the Evening," Mr. and Mrs. W. G. Smith, and spoke in hearty recognition of Mr. Smith's energy and industry and the fine spirit which characterises his business relationships. Mr. Greeff further signalised the occasion by presenting to Mr. and Mrs. Smith a silver tea-and-coffee set and salver—a replica of an old Georgian service. Mr. Greeff was followed by Mr. Alfred J. Thompson, who, on behalf of the staff, presented Mr. and Mrs. Smith with a centrepiece for flowers, fruit, and confectionery, and an illuminated address, the latter being worded as follows :



Mr. W. G. Smith.

"This testimonial is presented to Mr. William George Smith by his colleagues and members of the staff of R. W. Greeff & Co. as an expression of their high esteem and regard, upon the occasion of his association with the firm of R. W. Greeff & Co. attaining to a period of a quarter of a century. They desire to place on record their appreciation of the considerateness, geniality, and generosity of spirit which have always characterised his strenuous business life. They hope that their happy relations with him as fellow-workers will be long continued. With all good wishes for his future welfare, they subscribe their names hereto."

Mr. Smith acknowledged the gifts and the honour done to him in a grateful speech. The next toast was "The Staff," given by the host and responded to by Mr. Lorleberg and Mr. R. H. Greeff; then came "The Ladies," Mr. Percy Smith toasting them, and Master Edward Greeff (ætat 15) making his maiden speech in reply: he spoke very well. Amusement was provided by Miss Olive Fox, Mr. Walter Churcher, and Mr. Maurice Garland.

Parliamentary Candidates.

THE third Parliament of King Edward VII. will be dissolved on January 10, and on the same day will be issued the writs for a General Election of members of the House of Commons. The earliest date on which the elections can take place is January 15. In looking through the lists of candidates we find the names of many who are known to the drug-trade, there being two pharmaceutical chemists, two chemists and druggists, several chemical-manufacturers and a number of medical men who aspire to Parliamentary honours. Among the names we miss several who have rendered services to pharmacists in the last Parliament, such as Mr. T. H. W. Idris, who sits for Flint Boroughs, Mr. H. Y. Stanger, K.C., and Sir John Batty Tuke, all of whom helped during the momentous times when the Poisons and Pharmacy Act was in the making. Sir John Brunner, the well-known chemical-manufacturer, is retiring from Parliamentary life, but his son, Mr. J. F. L. Brunner, will probably succeed him as member for the Northwich Division of Cheshire. Sir Robert Pullar, who represented Perth City, is not again contesting a seat (he is the well-known dyer), and Sir James Duckworth, a director of Boots, Ltd., who sat for Stockport, is also retiring. The following are brief notes about those candidates whose careers are interesting to our readers :

Mr. CHRISTOPHER ADDISON, who is Liberal candidate for the Hoxton Division of Shoreditch, is Lecturer on Anatomy at St. Bartholomew's Hospital, Examiner in Anatomy for the Universities of Cambridge and London, and has published many works on anatomical subjects. He is M.D., B.S.(Lond.), and F.R.C.S. (England), and lives at Northwood, Middlesex.

Mr. J. ALLEN BAKER, who represents East Finsbury in the present Parliament as a Liberal, is chairman of Joseph Baker & Sons, Ltd., engineers, Willesden, who are makers of pharmaceutical machinery for grinding, sifting, mixing, and emulsifying. He is standing again for the same constituency. Mr. Baker was born in Canada, and lives at Donnington, Harlesden, N.W.

Sir THOMAS BARCLAY, Liberal candidate for Blackburn, is not the Sir Thomas Barclay of Birmingham who is uppermost in the minds of pharmacists, but the international lawyer who has done so much to promote the *Entente Cordiale* with France. He is an authority on commercial law, and in 1899-1900 was President of the British Chamber of Commerce in Paris. He was knighted in 1904.

Sir WILLIAM JAMES BAXTER, Liberal candidate for Antrim (North), is a pharmaceutical chemist and Vice-President of the Pharmaceutical Society of Ireland. He was born at Tattykeel, Cookstown, co. Tyrone, and educated at Ballymena Academy and Carmichael College, Dublin. At the last-named college he gained the highest marks in materia medica and chemistry. He was registered as a pharmaceutical chemist in 1884, and more than twenty years ago was co-opted a member of the Council when Sir George B. Owens resigned. He has held office ever since. In Coleraine Sir William is one of the best-known men, and has held the chief positions in most of the local governing bodies. He was made a justice of the peace for the county of Londonderry in 1900, and received the honour of knighthood in 1907. Besides conducting a retail pharmacy, Sir William has the largest wholesale merchant and foreign shipping business in Coleraine.

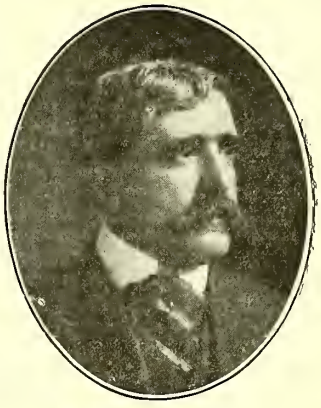


SIR W. J. BAXTER.

Mr. ALFRED F. BIRD, Unionist candidate for Wolverhampton (West), is a Birmingham man and a son of the late Mr. Alfred Bird, F.C.S., the well-known analytical and manufacturing chemist, whose business in Worcester Road, Birmingham, was acquired by Mr. T. L. Reeve. Mr. A. F. Bird is chairman of the directors of Alfred Bird & Sons, Ltd., manufacturers of baking-powders, custard-powders, and other culinary necessities. Mr. Bird's great-grandfather was the distinguished inventor of navigating and astronomical instruments whose memory is perpetuated on the bas-relief of the Albert Memorial; while his grandfather, Mr. John Bird, was Professor of Astronomy at Eton and a contemporary and friend of Sir John Herschell. Mr. A. F. Bird was born at Birmingham in 1849, and was educated at King Edward's Grammar School. He joined his father and brother in the business in 1873. Five years later his father died, and on his brother's subsequent retirement and death he became head of the business of Alfred Bird & Sons, which was ultimately converted into a limited company. He unsuccessfully contested Wednesbury at the last General Election.

Mr. GEORGE OLDROYD BORWICK, a director of George Borwick & Sons, Ltd., baking-powder manufacturers, 24 Chiswell Street and Bunhill Row, London, E.C., is Conservative candidate for North-West (Barnstaple) Devon. Mr. Borwick, who is only just over thirty, unsuccessfully contested Poplar at the election in 1906. His company claims to be the largest makers of baking-powder in the world, and their product is sold in many pharmacies.

Mr. EDWARD ALLEN BROTHERTON, Conservative candidate for Wakefield, has represented that constituency since 1902. At the election in 1906 there was a three-cornered fight, but this time Mr. Brotherton has only one opponent, Dr. Stanton Coit (Lab.). Mr. Brotherton was born in Manchester in 1856, and was educated at Owens College. He is head of the firm of Brotherton & Co., who manufacture extensively ammonia and ammonia products, crude naphtha, crude carbolic, creosote, etc., at Birmingham, Glasgow, Leeds, Liverpool, Sunderland, and Wakefield. He was Mayor of Wakefield in 1902-3. He lives at 16 St. James's Place, S.W., when in town, and has two country houses, The Gables, Wakefield, and Allerton Hall, Gledhow, Leeds.



MR. E. A. BROTHERTON.

Mr. JOHN FOWLER LEECE BRUNNER, who was elected Liberal member for the Leigh Division of Lancashire in 1906, has been adopted as candidate for the Northwich Division of Cheshire, the seat held by his father, Sir John T. Brunner, Bart. Mr. Brunner was born in 1865, and educated at Cheltenham College, the Polytechnic School, Zurich, and Trinity Hall, Cambridge. He entered the service of Messrs. Brunner, Mond & Co. in 1888, and was appointed a director in 1894, since which year he has superintended the company's business and works at Silvertown, London. In 1894 he married the daughter of Mr. Octavius Vaughan Morgan, a director of the Morgan Crucible Co., Ltd., of Battersea, and first M.P. for Battersea, 1885-1892—the predecessor of Mr. John Burns. Mr. Brunner introduced the Miners' Eight Hours Bill into Parliament in 1906, and during 1907 and 1908 he was a member of the Sweated Industries Committee, which resulted in the passing of the Trade Boards Act. He was also placed on the Grand Committee which considered, and put into shape, the very successful Patents Act, 1907. Mr. Brunner has travelled a good deal, and speaks several languages fluently.

Sir WILLIAM JOB COLLINS, the well-known oculist, who has been Liberal member for West St. Pancras since 1906, is again a candidate for that constituency. He was educated at University College and St. Bartholomew's Hospital, where he had a most distinguished career. He has been Chairman of the London County Council, was knighted in 1902, and served on the Royal Commission on

Vaccination and the Royal Commission on Vivisection. Sir William has published various essays, including one on "Cataract."

Mr. R. A. Cooper, Conservative candidate for Walsall, is the elder son of Sir Richard Powell Cooper, and a member of the firm of Cooper & Nephews, sheep-dip manufacturers, Berkhamsted. He lives at Ashlyns Hall, Berkhamsted. His portrait on p. 55 is by Chipley (Walsall).

Mr. Arthur Henry Crosfield was elected Liberal member for Warrington in 1906, and is again before the electors of that town. He is managing director of Joseph Crosfield & Sons, Ltd., soap-manufacturers, and of Erasmic, Ltd., of Warrington, Liverpool, and London. These companies are large producers of glycerin, and have made a reputation for the interesting Welfare work which is carried on among the workers. The members of the British Pharmaceutical Conference visited the works on July 26, 1907, and descriptions of the extensive premises have been given in The Chemist and Druggist, August 3, 1907, and July 28, 1906.

Mr. Alexander Cross, who was returned as a Unionist for the Camlachie Division of Glasgow in 1906, is contesting the seat as a Liberal. He is senior partner in Alexander Cross & Sons, seed-merchants and chemical-manufacturers, but is known to pharmacists chiefly for the part he took in promotion of the agitation which led to the passing of the Poisons and Pharmacy Act, 1908, by which unqualified persons can be licensed to sell agri-horticultural poisons. He was educated at Glasgow University, and was director of the Glasgow Chamber of Commerce in 1890.

Surgeon-General George Joseph Hamilton Evatt, C.B., M.D., who is one of the Liberal candidates for Brighton, is an enthusiast on matters connected with the Royal Army Medical Corps. It will be remembered that in November 1906 he gave an extremely interesting address at an evening meeting of the Pharmaceutical Society of Great Britain on the pharmacist's place in the Army. He recommended young pharmacists to make themselves efficient in military pharmacy, then combine and make the War Office give them commissioned rank. Surgeon-General Evatt, who has now retired from active service, was born in 1843, and has done splendid work in the Army, which has included the reorganisation of the R.A.M.C. He lives at Camberley, Surrey.

Sir Balthazar Walter Foster, who has represented the Ilkeston Division of Derbyshire as a Liberal since 1887, is again a candidate. He is an M.D. and was Professor of Medicine to Queen's College, Birmingham, from 1868 to 1892. It was he who first recognised the importance of the sphygmograph as an aid to diagnosis in heart-diseases.

Mr. William Samuel Glyn-Jones, barrister-at-law and chemist and druggist, is contesting the Stepney Division of the Tower Hamlets in the Liberal interest. He is so well known to the drug-trade that we need not repeat the outline of his career. On the present occasion he is the "chemists' candidate," as he is supported by a Parliamentary Fund raised from members of the drug and allied trades. There are seven constituencies comprised under the heading of Tower Hamlets, and it is interesting to note that Stepney is the only one which did not return a Liberal at the last General Election. Mr. Glyn-Jones has received and published a letter from the Chancellor of the Exchequer in support of his candidature. In the course of this Mr. Lloyd George says:

The personal experience which you have gained as one of the people of the East-end during the years you lived and worked among them in Stepney and Poplar specially qualifies you to represent them in Parliament. It is unfortunate that as a result of our present electoral system only 4,653 people out of a population of 63,000 in Stepney can by their votes register their wishes upon the tremendous issues of this election. . . . I hope and believe the electors of Stepney will return you as their member, and thus take their part in the victory which is about to be won for the liberties of the people as against the tyranny of the House of Lords.

A subscriber (35/9) writes to us in regard to Mr. Leverton Harris (Mr. Glyn-Jones's opponent), who, he says, "is an M.A. of Cambridge University, and distinguished himself by taking a high honour degree in chemistry and natural science. He is, I understand, an expert scientific chemist himself, and besides this is cognisant with the more pressing matters dealing with pharmacy."

Dr. Alfred Peter Hillier, Conservative candidate for the Northern or Hitchin Division of Hertfordshire, is a retired physician. He has specialised in tuberculosis, and is consulting physician to the London Open Air Sanatorium. He served in South Africa during the Kaffir War, 1878-9, and was President of the South African Medical Congress, 1893. He lives at Markyate Cell Priory, Dunstable.

Mr. Emslie John Horniman, Liberal member for Chelsea, is again contesting that seat. He has been a director of the family-tea business of Horniman & Co., Ltd., but now finds his bent in art and the beautification of London.

Mr. William Hesketh Lever, who represented the Wirral Division of Cheshire in the last Parliament, has been adopted as Liberal candidate for the Ormskirk Division of Lancashire. Mr. Lever is the son of Mr. James Lever, a wholesale grocer, of Bolton. He was born in 1851, and after being educated at the Church Institute, Bolton, he commenced his business career in his father's office in 1867. In 1877 Mr. Lever began business on his own account as a wholesale grocer in Wigan. Nine years later he commenced the manufacture of "Sunlight Soap," which has made its proprietor a rich man, and has gained a world-wide reputation. The soap-business was started at Warrington, but it grew so rapidly that in a few years the fine works at Port Sunlight, near Birkenhead, were built, which are now carried on by Lever Bros., Ltd., Mr. W. H. Lever being chairman of the directors. Port Sunlight is one of the model villages of the country, with dining-rooms, reading-rooms, and cottage gardens.

Mr. Thomas Lough, who has represented Islington (W.) as a Liberal since 1892, is again contesting the seat. He has been of service to pharmacists on several occasions as a backer of Pharmacy Bills, and has been a guest of the Pharmaceutical Society at its annual dinners. Mr. Lough is chairman and managing director of Tower Tea, Ltd., and the Lifebelt Coffee Co., Ltd., the latter being the introducers of a caffeine-free coffee. His genial Irish humour makes him a much appreciated after-dinner speaker.

Mr. Alfred Moritz Mond, who was elected Liberal member for Chester in 1906, has been adopted as candidate for Swansea Town. He is a son of the late Dr. Ludwig Mond, F.R.S., and a director of Brunner, Mond & Co., Ltd., chemical-manufacturers; the Mond Nickel Co., Ltd.; the South Staffordshire (Mond Power & Heating) Gas Co.; and chairman of the Power Gas Corporation, Ltd. Mr. Mond was educated at Cheltenham College, St. John's College, Cambridge, and Edinburgh University, and is a barrister of the Inner Temple. He was Chairman of the Chemical Industries Section of the Franco-British Exhibition, 1908, and has published articles on "The Alkali Trade under Free Trade." Mr. Mond is Treasurer of the Free Trade Union, and lives at 35 Lowndes Square, London, S.W., and Winnington Hall, Northwich, Cheshire.

Dr. Robert Oswald Moon, Liberal candidate for Marylebone (East), is physician to the Western General Dispensary, Marylebone; Hospital for Diseases of the Heart, Soho Square; and Royal Waterloo Hospital. He acted as a surgeon during the Græco-Turkish War, 1897, and in South Africa, 1901. Dr. Moon was born in 1865, and lives at 45 Green Street, Park Lane, London, W.

Mr. Thomas Brash Morison, K.C., who is contesting West Perthshire in the Liberal interest, with the Marquis of Tullibardine as his opponent, is a member of the English and Scotch Bars, and has acted on many cases in Scotland as counsel for the Pharmaceutical Society. He is the second son of Mr. Peter Morison, S.S.C., Edinburgh, the Society's solicitor there. West Perthshire is at present represented by a Liberal—Mr. David Erskine, of Linlathen—who is retiring.

Mr. Max Muspratt, Liberal candidate for the Exchange Division of Liverpool, is the son of Mr. E. K. Muspratt, chemical manufacturer, Seaforth Hall, Liverpool, and a director of the United Alkali Co., Ltd. He is a Fellow of the Chemical Society and Chairman of the Liverpool

Section of the Society of Chemical Industry. Mr. Max Muspratt had been "nursing" the Widnes division of Lancashire, but owing to the retirement of Mr. R. Cherry, K.C., has been adopted for Liverpool Exchange. He is a Justice of the Peace and a County Councillor.



MR. R. A. COOPER.



MR. W. S. GLYN-JONES.



MR. R. WINFREY.



MR. W. PEARCE.



MR. A. F. BIRD.



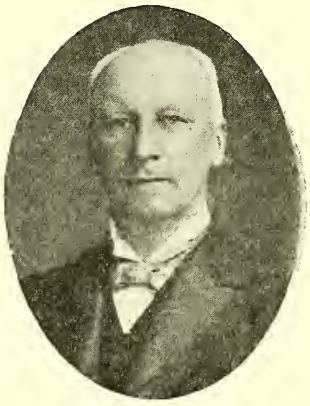
MR. W. H. WANDLESS.



MR. MAX MUSPRATT.



MR. W. H. LEVER.



MR. T. LOUGH.

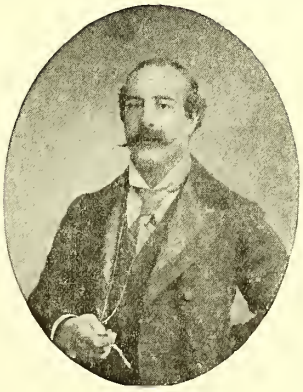
MR. WILLIAM PEARCE, Liberal candidate for the Limehouse Division of the Tower Hamlets, has represented that constituency since 1896. He is a director of William Pearce & Sons, Ltd., and Spencer, Chapman & Messel, Ltd., chemical-manufacturers, Bow Common, London, E. The business of W. Pearce & Sons was established seventy years ago by Mr. William Pearce's father, who was a member of the first London School Board. Mr. Pearce was educated in science at the School of Mines and at the Royal College of Chemistry He is a Fellow of the Chemical Society and a member of the London Committee of the Society of Chemical Industry. He represented Limehouse on the London County Council from 1892 until 1901, and was a member of the Technical Education Board. He is a Justice of the Peace for the County of London. He lives at 14 Park Crescent, Portland Place, W., and has a house at Walmer. His knowledge of commercial ques-



MR. J. F. L. BRUNNER.



MR. J. W. WILSON.



MR. A. M. MOND.



MR. H. J. TENNANT.



SIR EDWARD TENNANT.

tions was of service to the Board of Trade in connection with the preparation and passing of the Port of London Act.

Mr. James Farquharson Remnant, who has represented the Holborn division of Finsbury as a Conservative since 1900, is looked upon as "the member for Bloomsbury" in pharmaceutical circles, so frequently has he been a guest at the dinners of the Pharmaceutical Society. His majority at the 1906 election was over a thousand, but his election is to be opposed on behalf of the Liberals by Sir Richard Stapley, who has a house in Bloomsbury Square.

Sir Alexander Russell Simpson, who is contesting Edinburgh and St. Andrews University as a Liberal, is a medical man. He was formerly Dean of the Faculty of Medicine and was Emeritus Professor of Midwifery and the Diseases of Women and Children at the University of Edinburgh, 1870 to 1905. He is nephew of Sir James Young Simpson, the introducer of chloroform anæsthesia. His published works are on obstetrical subjects.

Mr. Philip Snowden, Labour candidate for Blackburn, has been member for that borough since 1906. He is one of the brightest ornaments of the Socialist party, but his interest for the drug-trade lies in the fact that under the tuition of Mr. R. Lord Gifford he has taken an important part in pharmaceutical politics. He has assured local pharmacists that he has not done with the matter yet and will help them, if again elected, to get justice done in regard to the use of the word "pharmacy" as a description of the place of business of unqualified persons. Mr. Snowden is a journalist and lecturer, and was a member of the Royal Commission on Canals and Waterways.

Mr. Bertram Stuart Strauss, the Liberal candidate for the Mile End Division of the Tower Hamlets, has represented that constituency in Parliament since 1906. He was articled to Hale & Son, drug brokers, Mincing Lane, E.C., and became a partner in the firm, but retired in 1898. Mr. Strauss has done good work for London on the County Council and Marylebone Borough Council. He has extended a helping hand to Mr. W. S. Glyn-Jones, the Liberal candidate for the neighbouring constituency of Stepney. He was born in 1867 and is unmarried.

Sir Edward Priaulx Tennant, who has represented Salisbury as a Liberal since 1905, is the second baronet, succeeding to the baronetcy on the death of his father, Sir Charles Tennant, in 1906. He was educated at Eton and Trinity College, Cambridge, graduating M.A. in 1885. He is chairman of the directors of Chas. Tennant, Sons & Co., Ltd., chemical-manufacturers, 9 Mincing Lane, 9 and 10 Old Swan Lane, London, E.C., and Cardiff. He shares with his two brothers the Manchester and Liverpool businesses which belonged to their father, the late Sir Charles Tennant. Sir Edward has travelled extensively, and was assistant private secretary to Sir George Trevelyan at the Scottish Office from 1892 to 1895. He lives at 34 Queen Anne's Gate, S.W., and has houses at Peebles and Salisbury.

Mr. Harold John Tennant, who has represented Berwickshire in the Liberal interest since 1894, is the youngest son of the late Sir Charles Tennant, who was head of the firm of Charles Tennant, Sons & Co., chemical-manufacturers, and President of the United Alkali Co., Ltd. Mr. Tennant was educated at Eton, and is a B.A. of Trinity College, Cambridge. He is interested in the family business at Liverpool and Manchester. He was private secretary to his brother-in-law, the Right Hon. H. H. Asquith, from 1892 to 1895. He was also Secretary to the Departmental Committee of the Home Office concerning various lead industries in 1893, Chairman of the Departmental Committee on Miscellaneous Dangerous Trades, 1895-99, and Chairman of the Committee on the Scientific and Statistical Investigations in relation to the Fishing Industry of the United Kingdom. Mr. Tennant was appointed Parliamentary Secretary of the Board of Trade last year. He has residences in London, Aberdeenshire, and Kent.

Mr. William Hood Wandless, chemist and druggist, has been adopted as Liberal candidate for Whitehaven. He was born in 1873, and in 1889 was apprenticed to Messrs. Wilson & Kitchin, Whitehaven, gaining during that time several prizes in the "Corner for Students" section of The Chemist and Druggist. He afterwards went as assistant to Mr. John Taylor, of Torquay, leaving him to study for the Minor under Mr. William Duncan, Edinburgh. He successfully passed the Minor in 1897, and after a term as a dispenser to a medical practitioner began business on his own account in Duke Street, Whitehaven, in 1899. He is a member of the Council of the Cumberland and Westmorland Chemists' Association, of the Town Council, and of the County Council.

Mr. John William Wilson, who has been Liberal member for North Worcestershire since 1895, is again contesting that seat. He is a partner in the firm of Allbright & Wilson, phosphorus-manufacturers, Edgbaston, Birmingham. Mr. Wilson was born in 1858, and was educated at Grove House School, Tottenham, and abroad. He lives at Perrycroft, Colwall, Herefordshire, and has a London house at Queen Anne's Mansions, Westminster, S.W. He has been of assistance to chemical industry when such questions as tax-free alcohol for manufacturing purposes have been before Parliament.

Mr. Richard Winfrey, pharmaceutical chemist, who has been Liberal member for Norfolk (S.W.) since 1906, is again contesting the seat. He was born at Long Sutton, Lincolnshire, in 1858, and was apprenticed at Stamford, afterwards serving as an assistant at Grantham and with John Bell & Co., London. In 1879 he passed the Major examination of the Pharmaceutical Society after a course at Muter's South London College. Mr. Winfrey was with John Bell & Co. for five years (1880-1885), and during that time took a keen interest in the Chemists' Assistants' Association, of which he was President for two or three years. Mr. Winfrey afterwards drifted from pharmacy, and is now managing director of five newspaper companies controlling eighteen journals. He is Parliamentary Private Secretary to Earl Carrington, the President of the Board of Agriculture, and is a leading authority on small holdings. The keen interest he took in pharmacy matters in the House of Commons will ever be remembered gratefully by pharmacists.

Winter Session.

Chemists' Assistants' Association.

The following is the programme for the half-session (January to April). The meetings are held at 73 Newman Street, London, W. :

January 13.—Musical and social evening. Chairman, A. Latreille.
January 20.—Paper: A Talk upon Groups and Periods. Miss M. E. Buchanan.
January 27.—Annual dance. Café Monico.
February 3.—Paper: An Essay on Cascara. G. A. Tocher.
February 10.—Lantern lecture. Professor Henry A. Greenish.
February 17.—Paper: "Bromoil." G. T. Gale.
March 3.—Paper: Eminent Scientists. R. R. Bennett.
March 10.—Lantern lecture: The Cause and Nature of Colour. C. H. Warner.
March 17.—Annual dinner. Café Monico.
March 31. Musical and social evening.
April 7.—Paper. F. W. Crossley Holland.
April 14.—Paper. R. Lownsborough.
April 21.—Visit to St. Bartholomew's Hospital.
April 28.—Annual general meeting.

Hull Pharmacists' Association.

A Meeting was held at the Grosvenor Hotel, Hull, on Tuesday evening, January 4, Mr. J. F. Robson (President) in the chair.

Annual Reports.—Mr. Walter Staning read his report as Secretary, which showed that the membership had risen from forty to fifty-four during the year. There had been nine ordinary meetings and thirteen committee-meetings. The social events had been successful. Reference was made to the death of Mr. C. B. Bell, also to the fact that three applications by seedsmen for licences to sell poisons had been defeated by the action of the Association. Mr. Staning also said that he was hopeful that the labours of the Substitution Committee would bear good fruit.—The report of the Treasurer, Mr. Thomas Kenny, showed the receipts and expenditure each to amount to 21*l.* 5*s.* 10*d.*, the balance of cash being 8*l.* 11*s.* 6*d.* on deposit and 2*l.* 18*s.* 1*d.* in hand. On the motion of Mr. Jones, seconded by Mr. Richardson, the report and balance-sheet was adopted.

The Committee and Certificates.—A discussion arose on the initiative of Mr. Haworth Earle as to the appointment of the committee. He said that there appeared to be some friction, and he thought only special committees should be appointed. Mr. Richardson said they once did without a committee for a year, but in his opinion it would be impossible to go on without one now, and the Chairman ruled that Mr. Earle's action was irregular, as it involved altering rules, of which intention notice had not been given. It appeared that notice had been received from the Pharmaceutical Society by some members as to exhibiting certificates, and it was thought that this had been instigated locally. This was emphatically denied, and several members expressed satisfaction that action had been taken in this respect. It was also suggested that the committee appointed to deal with the sale of poisons by unqualified persons had exceeded their powers, but against this it was pointed out by Mr. Jones that the action suggested in respect of qualified persons was to enable the Association to deal more effectively with unqualified men when the time came to do so. The discussion eventually dropped.

Officers were elected as follows :

President.—J. F. Robson (re-elected).

Vice-Presidents.—Messrs. Jones (re-elected), Richardson (re-elected), and Smith.

Secretary.—Walter Staning (re-elected).

Treasurer.—W. Kenny (re-elected).

Committee.—Messrs. Snowden, Walton, and Earle.

Special votes of thanks were accorded to Mr. Staning, Mr. Jones saying that never had he seen such a painstaking secretary, and Mr. Smith for the use of rooms for committee-meetings.

Question for Parliamentary Candidates.—On the motion of Mr. Walton, seconded by Mr. Tebb, it was resolved that the following question be asked of the local candidates for Parliament :

"If elected, will you support a Bill to amend the Pharmacy Act, 1908, so as to curtail the powers of local authorities in the matter of granting poison-licences to unqualified traders, and to make it illegal for any person who is not a pharmacist to use in connection with his place of business the sign 'pharmacy' or any other colourable imitation of the title 'pharmacist'?"

New Members.—Mr. Archibald MacEwan, 113 De Grey Street, and Mr. Whitelam, Londesborough Street, Hull, were elected members.

The Week's Poisonings.

Eleven fatalities from poisoning, including three misadventures, have been recorded during the week. Elizabeth Doran (49), of Belfast, ended her life by drinking a quantity of *ammonia*. She had been depressed by a recent bereavement.—Margaret Atkinson (22) died at Blackpool from the effects of ammonia-poisoning. She picked up the wrong bottle in mistake for one containing whisky.—A Romford potman, named Albert Lucy (20), committed suicide by taking *carbolic acid*.—Mr. Ebenezer Melrose (58), surgeon dentist, Doncaster, poisoned himself by taking *laudanum*. The deceased's employers, Messrs. J. H. Hardy, Ltd., had recently discharged him, owing to his intemperate habits.—An overdose of the same opiate caused the accidental death at Brigg of Hanson Taylor (24), commercial traveller, Lincoln, who used the narcotic to induce sleep.—*Oxalic acid* was taken with suicidal intent by Ellen G. Redsall (33) at South Kensington, on account of a broken engagement.—Reporters were not admitted to the inquiry into the death of a Dublin barrister named John McMahon (43). The jury found a verdict of poisoning by *potassium cyanide*, but stated that the evidence did not show whether or not the poison was accidentally taken.—The same poison was used for suicidal purposes by Captain V. E. Garrett, Liberal Unionist election agent at Ipswich, who was worried by money troubles. Mr. Paul Ridley, chemist, Ipswich, deposed that deceased purchased 1 oz. of cyanide of potassium on Christmas Eve.—"Suicide while of unsound mind" was the verdict found by the jury at the inquest on Elizabeth Seely (38), domestic servant, West Hampstead, who poisoned herself with *spirit of salt*.—At Belfast, Robt. J. Thompson (37), insurance agent, died in the Royal Victoria Hospital from the effects of taking *strychnine*. Deceased obtained a supply of the poison from a Shankill Road druggist for the alleged purpose of destroying a dog.—Amelia Pratt (40), Fulham, died from strychnine-poisoning, owing to a doctor's dispensing error (*see* p. 35).

Chemists' Calendars.

Mr. S. H. Plattin, pharmacist, 10 Derby Road, Nottingham, distributes a wall-calendar with monthly tear-offs. A restful photographic view appears in the centre, the mount being of an artistic green colour.

Dr. H. L. Batliwala's Co., Warli Laboratory, Dadar, Bombay, send us one of their wall-calendars. It is composed of large monthly sheets with advertisements thereon printed in English and the vernacular in red ink.

From the Victoria Dispensary, Hong Kong, we have received a pretty English-made calendar and letter-rack. The centre portion is in pocket form and intended for letters or odds and ends, and has upon it a well-produced colour print entitled "The Seaweed Gatherers."

Messrs Potter & Clarke, Ltd., wholesale druggists and herb-growers, 60 to 64 Artillery Lane, London, E., issue a card-calendar with a classic design in blue on the front along with a monthly tear-off. On the reverse side is given a useful tabulated list of antidotes to poisons. The calendar measures 9½ in. by 7¼ in.

Mr. Major Hill, chemist and druggist, 109 Norfolk Street, Wisbech, issues a combined almanac and price-list. The cover is printed in gold and crimson, and the ink used inside is of a pleasing blue colour. The book contains a medical guide, and Mr. Hill's own preparations are well advertised. Shopping by post is a feature in this business.

Mr. Victor E. Hanna, pharmaceutical chemist, The Prescription Pharmacy, 70 Lower Mount Street, Dublin, sends out a blotter-calendar to his customers. A separate sheet (9½ in. by 4 in.) is supplied for desk use each month. On the front is the month's calendar, the back being blotting-paper. In this way the customer has his chemist's name constantly before him.

Messrs. Bell & Son, chemists and opticians, Stapleford, produce the Stapleford Almanac, which is very creditable to local craftsmen. The firm tell us it is their cheapest advertisement, as the cost is practically defrayed by the charges made to other advertisers. Messrs. Bell & Son are emphatic in the preface as to the advantage of dealing with qualified chemists.

Mr. T. R. Connolly, pharmaceutical chemist, 40 Clanbrassil Street, Dundalk, sends out a small celluloid calendar. He has done this since 1895, and finds that the indestructible character of the calendar is much appreciated by his customers, who never forget to ask for one each new year. The back of the calendar is matted, and intended for use as a memorandum tablet.

Messrs. Wright, Layman & Umney, Ltd., wholesale druggists, Southwark Street, London, S.E., sent out with their January price-list a compact perpetual card-calendar. The month and days of the week are printed on one card, and separately there is a series of cards containing the numerals so arranged that the calendar can be set according to the day of the week upon which the month begins. It is an ingenious arrangement.

Although not a calendar, we may well mention here the new year's card which was sent out by Th. Mühlethaler S.A., makers of synthetic perfumes, Nyon, Switzerland. The inscription is "Souhaits sinceres" beneath a group of three embossed carnations. The carnations are formed of some red velvet-like material, and look very natural. They are, moreover, perfumed with nyo-œillet (artificial carnation), which heightens the effect and increases the appearance of reality.

The Dispensary, 2 Bishop Street, Penang, send out a large-size wall-calendar, the special feature of which is the English and Chinese days of the month on the same sheet. The confusion which one would expect is obviated by printing the Chinese dates in red and the English in black. That such an arrangement should be necessary well illustrates the difficulties which some British houses encounter—and overcome—when planted on a strange soil. An interior and exterior view of The Dispensary are given above the calendar.

Battersea Polytechnic.—A complete course in pharmaceutical subjects is now available at the Battersea Polytechnic, Battersea Park Road, London, S.W. Mr. C. E. Sage, F.I.C., Ph.C., is conducting the classes in pharmacy and materia medica on Thursdays in each week, commencing on January 13. The afternoon course (2.30 to 5.30 p.m.) is in practical dispensing, materia medica, and pharmaceutics; while in the evening (6.30 to 9.30 p.m.) elementary pharmacy and prescription-reading and practical dispensing are the subjects. With the existing classes in chemistry, botany, and physics a complete course for the Pharmaceutical Society's examinations is available. The fees range from 1*l*. 12*s*. 6*d*. to 2*l*. 10*s*. for the half-year. For further particulars apply to the Secretary, Mr. J. Harwood.

Prescription Problem.

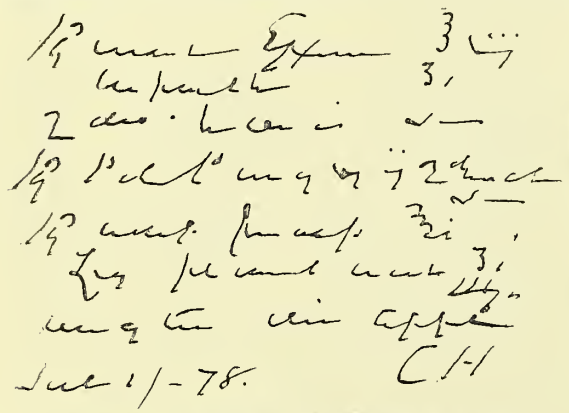
THE exercise set in the *C. & D.*, December 18, has induced a good competition, all parts of the United Kingdom being well represented. Very few competitors failed to give the correct ingredients, but many fell over the quantity of the bismuth mixture and the amount to be taken for a dose. The hieroglyphic at the left-hand top corner is not, as would be supposed, the sign for "recipe": in this case it stands for "v.c.," which the prescriber intends to indicate that the patient visited his surgery. The transcription is as follows:

V C
App Bellad c Chlo[ro]f 5j
pro app to back

Tr Chlor Co 5iss
Mist Bis[muthi] Co 5vj
5ss 4 tis horis

The correct solution of the problem was sent in by Mr. A. Seward, 46 Churton Street, Belgrave Road, London, S.W., and to him we award a copy of "The Art of Dispensing." Other postcards which were only incorrect in a trifling degree were sent by Mr. J. Richards, 53 Knightsbridge, London, S.W.; Mr. A. F. Pickford, 194 Holland Park Avenue, London, W.; and Mr. A. H. Kynaston, c/o Milton & Son, 265 High Street, Exeter.

The next problem is in handwriting which is not unfamiliar to competitors. We shall receive postcard renderings of it up to January 14:



Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 obtainable at Money Order Offices for £1) and lodged with Mr. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

The figures in parentheses refer to the classes in which the marks are desired.

(*From the "Trade-marks Journal," December 29, 1909.*)

"Photak"; for photographic chemicals, plates, and films (1), and for photographic papers (39). By C. W. Bloomfield, Victoria Road, Charlton. 317,034, 317,036.

"Eikonogen" (317,270), "Eikonal" (317,290), "Bichromin" (317,299), for chemicals (1); "Perchromin" (317,297/8) and label device (317,831/2), for chemicals (1) and goods (4); "Tanocol" (317,285/6), for chemicals (2 and 3); "Tannobromin" (317,307), for medicinal chemicals (3). By Berlin Aniline Co., Ltd., 26 Princess Street, Manchester.

"Pestite"; for a garden-pest destroyer (2). By Veresmith & Son, 67 Burnt Ash Hill, Lee, Kent. 317,249.

"Kure Quik Company," and device; for medicinal chemicals (3). By J. L. Fear, 21 Portland Square, Bristol. 316,578.

"Neo-iodure," and label; for a medicated preparation (3). By G. Menard, 32 Boulevard Allard, Fouras-les-Bains, France. 316,900.

"Tannurgyl"; for a pharmaceutical preparation (3). By M. Le Tanneur, 39 Rue de la Chaussée d'Antin, Paris. 317,183.

"Dlonra"; for corn-cures (3). By W. Stillwell, 39 Latimer Road, Godalming. 317,347.

"Phostona," and label device with the word "Power"; for a medicinal tonic (3). By J. H. R. Yardley, 133 Jermyn Street, London, S.W. 317,502.

"Psoko"; for a rheumatism embrocation (3). By H. G. Claringbull, Park Street, Beeston. 318,006.

"Sodaline"; for medicines (3). By R. R. Williams, 49 Park Terrace, Clydach Vale, Rhondda. 318,365.

"Stramelia" and "Kolpones"; for medicinal chemicals (3). By J. Shaw, 89 Farringdon Street, London, E.C. 318,391, 318,418.

"Zodiac"; for all goods (11). By Thompson & Capper, 51 Piccadilly, Manchester. 318,215.

"B. P.," with wording "Brooke & Prudencio, Ltd."; for non-alcoholic syrups and cordials (42). By Brooke & Prudencio, Ltd., 124-132 Newfoundland Road, Bristol. 315,853.

"Bacno"; for milk-products, etc. (42). By P. Cramer, 474 Keizersgracht, Amsterdam. 317,878.

"Schneestern"; for wool-fat toilet-preparations (48). By Norddeutsche Wollkammerei und Kammgarnspinnerei, Privatweg, Bremen-Delmenhorst. 316,876.

London Drug Statistics.

The following statistics are compiled from information supplied by public warehouses. They relate to the receipts and deliveries of some of the leading drugs from and into the London public warehouses for the month of December 1909, and to the stocks on December 31:

	December		Stocks		1909	
	Landed	Delivd.	1909	1908	Imprtd.	Delivd.
Aloes.....cs. etc.	58	128	398	461	1,783	1,718
,, ...gourds	—	—	209	1,208	92	1,091
Aniseed, star.....cs.	—	—	—	74	—	74
Arrowroot .....pkgs.	839	800	5,767	6,155	13,936	14,324
Balsams ... cks. etc.	12	26	517	362	778	623
Calumba ..... bgs.	—	—	51	187	91	227
Camphor ..... pkgs.	405	708	2,676	1,542	10,283	9,149
Cardamoms..... ,,	553	427	1,771	891	5,947	5,061
Cascara sagrada tons	—	10	407	*	20	229
Cinchona..... pkgs.	965	543	4,724	4,183	5,836	5,294
Cocculus indicus ,,	—	4	—	—	4	4
Cochincal..... tons	61	41	515	727	617	829
Cubebs..... bgs.	—	4	35	119	98	183
Dragon's blood pkgs.	31	17	129	106	245	222
Galls ..... ,,	270	163	1,483	1,277	3,406	3,100
Gums—						
Ammoniacum ,,	—	—	4	10	15	21
Animi ..... ,,	54	34	356	239	1,044	927
Arabic ..... ,,	708	980	5,687	5,706	10,733	10,71
Asafetida..... ,,	—	8	88	74	205	302
Benzoin ..... ,,	281	142	1,265	553	3,210	2,500
Copal..... ,,	4,195	2,879	22 043	27 631	37,941	43,539
Damar ..... ,,	714	388	4,663	3,442	5,480	4,235
Galbanum ... ,,	—	—	—	—	—	—
Gamboge..... ,,	—	17	132	77	269	214
Guaiacum ... ,,	—	—	54	78	11	28
Kauri ... tons net	71	44	365	558	583	766
Kino ..... pkgs.	—	—	42	128	17	93
Mastich ..... ,,	1	4	19	8	42	32
Myrrh, E.I.... ,,	15	50	264	378	433	541
Olibanum ... ,,	—	121	297	1,471	527	1,648
Sandarac ..... ,,	32	102	323	452	1,276	1,411
Tragacanth... ,,	468	868	2,992	4,188	13,806	14,733
Ipecacuanha—						
Cartagena ... ,,	1	2	60	3	132	139
E.I. ("Johore") ,,	40	—	44	21	100	61
Matto Grosso ,,	18		85	83	226	252
Minas ..... ,,	6	—	17	33	66	69
Jalap ..... bls.	—	5	7	14	42	49
Nux vomica . .pkgs.	—	55	1,276	789	1,311	832
Oils—						
†Aniseed, star...cs.	—	3	57	29	149	122
†Cassia ..... ,,	—	4	57	69	135	146
Castor ..... pkgs.	137	153	106	243	777	911
Coconut..... tons	84	91	191	1,191	1,270	2,551
Olive .....pkgs.	127	193	1,162	1,873	5,073	5,718
Palm ..... tons	—	3	7	8	24	25
Quinine..... lb.	4,962	5,637	205.121	209.474	55,624	59,976
Rhubarb ..... cs.	48	98	481	892	485	896
Sarsaparilla ... bls.	51	57	478	264	1,564	1,338
Senna ..... pkgs.	216	623	1,035	1,010	5,693	5,664
Shellac ..... cs.	9,503	4,013	56,247	48,121	62,879	54,75
Turmeric ..... tons	8	10	295	245	301	221
Wax—						
Bees' ... ... pkgs.	185	445	1,679	2,087	4,943	5,878
Vegetable (Jap).,,	125	54	768	183	1,756	1,170

* No record.

† Stocks of essential oils at Smith's Wharf and Brewer's Quay are not included.

Trade Report and Market Review.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are obtained for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at these prices.

42 Cannon Street, London, January 6.

BUSINESS has not yet settled down to its normal proportions in the chemical and drug markets so far as the home trade is concerned, and dealers do not look for much activity until next week, when the auctions will give the lead. Among the more important changes of the week is a reduction of ½*d.* in methylated ethers. German refined camphor, cocoa butter, copper sulphate, juniper berry oil, linseed and turpentine oil are all higher. Lemon oil is also higher as the result of the increased duty on citrate; but the outlook is uncertain. Caraway and sandalwood oils, terebene, atropine, and chrysarobin are all more or less in buyers' favour. British and foreign makers of bromides now offer to book orders for forward delivery. Glycerin is very firm. Morphine and codeine are unaltered but quiet. The changes have been as follows :—

Higher	Firmer	Easier	Lower.
Camphor (Germ. ref.)	Benzols	Caraway oil	Atropine
Cocoa butter	Hydrastis	Cassia lignea	Ethers (meth.)
Copper sulphate	Lemon oil	Chillies	Sandalwood oil
Juniper berry oil	Quinine (sec. hands)	Chrysarobin	Terebene
Linseed oil		Rosin	
Turpentine			

Cablegram.

NEW YORK, January 6 : Business in drugs is fair. Opium is unsettled at $5.75 per lb. for druggists' by single cases. Hydrastis is 5c. dearer at $2 per lb. Peppermint oil and cascara sagrada are unchanged. Jalap is lower at 33c. Curaçao aloes is firmer at 7c. Senega is firm at 60c. ; and damiana-leaves are unchanged.

Heavy Chemicals.

Business in the heavy-chemical market has not as yet settled down to anything like normal proportions, but the feeling in the market is of a fairly hopeful character, and consequently values keep on the steady side. One of the main points of interest at the moment is as to possibility of serious disturbances in the coal trade with a natural effect upon chemical-manufacturers.

SULPHATE OF AMMONIA is very firm all round, and, with supplies being well taken up, prices have an upward tendency. Present nearest figures are: Beckton January-June, 11*l.* 12*s.* 6*d.*; Beckton terms, 11*l.* 3*s.* 9*d.* to 11*l.* 5*s.*; London, 11*l.* 5*s.* to 11*l.* 7*s.* 6*d.*; Leith January-June, 11*l.* 12*s.* 6*d.*; Hull, 11*l.* 6*s.* 3*d.* to 11*l.* 7*s.* 6*d.*; and Liverpool, 11*l.* 7*s.* 6*d.* to 11*l.* 8*s.* 9*d.* Little or nothing of importance has been done as regards forward business.

BARIUM-PRODUCTS rule steady, and are in fair average request. The mineral carbonate of barytes or witherite retains its position, and firm offers are quite out of the question, owing to demand being in excess of supply. Blanc fixe, pure precipitated sulphate of barium in paste form, 6*l.* 10*s.* to 7*l.* 5*s.* per ton in usual casks. Precipitated carbonate of barium, very steady at 6*l.* to 7*l.* per ton in bags. Chloride of barium, ordinary refined crystals in casks, 7*l.* to 7*l.* 10*s.* per ton. Hydrate of barium, purest crystals, 13*l.* to 14*l.* per ton in 6/7-cwt. casks. Fused concentrated barium hydrate, solid, 56 to 60 per cent. BaO, in 5/6-cwt. drums, 13*l.* 15*s.* to 15*l.* per ton. Crushed concentrated quality in special drums about 3 cwt. each, 30*s.* per ton extra. Mineral sulphate of barytes varies from 37*s.* 6*d.* to 95*s.* per ton, according to quality, quantity, and package. Crude calcined sulphate of barium, 70 to 75 per cent., 5*l.* 2*s.* 6*d.* to 5*l.* 15*s.* per ton.

Manchester Chemical-market.

January 4.

The promise of a better business on export account continues, and it is just possible that the returns now about due will show a fair increase in this department. Still, this is more than counterbalanced by the very moderate consumption on home account. There has, however, been a fair amount of business on contract passed through during the week. Sulphate of copper is very steady at 19*l.* 15*s.* to 20*l.* 2*s.* 6*d.* per ton, best brands, delivered Manchester. The forward position is uncertain, and holders are somewhat indifferent in making offers. Arsenic continues dull, and quotations are around 12*l.* 10*s.* to 12*l.* 15*s.* per ton Manchester. Acetate of lime and acetic acid registered lower figures, and there is not much change to note in coal-tar products, which remain steady.

London Markets.

ACETANILIDE is quoted at from 10*d.* to 10¼*d.* per lb. net for crystals.

ACID, CITRIC, is firm, with practically no sellers under 1*s.* 4*d.* per lb. for either English or foreign; makers quote 1*s.* 4½*d.*

ALOES.—The arrivals include 40 cases Curaçao *viâ* New York, and 16 cases from Algoa Bay.

ANISEED.—Russian is firm at 23*s.* 6*d.* to 25*s.* per cwt. for fair to good quality. For the small quantity of Spanish on the spot 38*s.* 6*d.* is asked.

ASAFETIDA.—The *Guildhall* has brought 272 cases from Bunder Abbas, but only part will be offered next week, if in time.

ATROPINE is offered at lower rates, the price of pure being from 14*s.* 6*d.* to 14*s.* 9*d.*, and sulphate at from 11*s.* 6*d.* to 11*s.* 9*d.* per oz.

BELLADONNA-ROOT is offered at the slightly easier rates of from 49*s.* to 50*s.* per cwt. c.i.f. to arrive.

BENZOIN.—A fair selection of Sumatra will be offered next week; several parcels partly consisting of good almondy seconds have arrived. Thirteen cases Siam are close at hand.

BROMIDES.—Both the British and foreign makers have now agreed to book contracts for delivery during next four months, *i.e.*, up to April 30 next at the unaltered prices. This bears out what we said in our issue of December 11—"it is not anticipated there will be any advance." The position, however, is firm, and buyers need not hesitate in fully covering their requirements. The quotation for English potassium bromide is 10¾*d.* per lb. net, sodium 1*s.* 1*d.* net, and ammonium 1*s.* 2*d.* net.

BUCHU.—Eleven packages have arrived from Cape Town, but ten are in transit for the U.S.A. Probably a dozen bales will be offered next week, but it is thought prices have now reached their highest point.

CAMPHOR (CRUDE).—China is steady at 135*s.* to 137*s.* 6*d.* spot, and at 137*s.* 6*d.* c.i.f. for January-March shipment.

CAMPHOR (REFINED).—German refiners have advanced the price of bells by ½*d.* per lb., to 1*s.* 8¾*d.* c.i.f. London in ton lots. Japanese is steady 2½-lb. slabs offering at 1*s.* 6*d.*, 1-oz. at 1*s.* 7*d.*, and ½-oz. at 1*s.* 7½*d.* per lb. spot. English bells are quoted 2*s.*, and flowers at 1*s.* 11*d.* in 1-cwt. lots.

CANARY-SEED is steady at 40*s.* to 43*s.* 6*d.* per quarter for ordinary Morocco and Turkish, and at 48*s.* to 50*s.* for good qualities of Morocco.

CAPSICUMS.—Steady. At auction 100 bags of Nyasaland sold at 65*s.* for good dark red, 45*s.* to 50*s.* 6*d.* for fair to good bright, and 39*s.* to 43*s.* for yellowish mixed.

CARAWAY-SEED is unchanged at 30*s.* 6*d.* per cwt. for fair Dutch on the spot.

CASSIA LIGNEA.—At auction 200 bags sold without reserve at from 44*s.* to 44*s.* 6*d.*, being easier.

Chillies.—The large supply of 544 bags Nyasaland was offered, and 300 sold at slightly easier prices, including fair to good red at 42*s.* 6*d.* to 45*s.*, mixed red and yellowish at 39*s.* 6*d.* to 40*s.*; Mombasa was bought in at 45*s.*

Chrysarobin is obtainable at rather easier prices, makers quoting 6*s.* per lb. net.

Cinchona.—Further particulars in regard to the Amsterdam auction show that the 7,796 bales and 736 cases weigh about 754,854 kilos., and contain the equivalent of 44,301 kilos. quinine sulphate. The weight of the manufacturing bark is 641,011 kilos. and the pharmaceutical bark 113,843 kilos., containing respectively 40,298 kilos. and 4,003 kilos. quinine sulphate. The average percentage of quinine in the manufacturing bark is 6.29, as compared with 6.54 per cent. in December.

Cinnamon.—At auction 276 packages Ceylon offered, and a few sold at 5*d.* for quillings.

Cloves.—At auction 35 bales Zanzibar sold at 4½*d.* for barely fair. Good picked Penang were bought in at 1*s.* 8*d.*, and dark Ceylon at 4¾*d.* Privately the market is lower, sales including January-March shipment at 4 13/32*d.*, and February-April at 4 7/16*d.* c.i.f. d/w. Also January-March delivery at 4 9/16*d.*, March-May at 4 11/16*d.*, and June-August 4 13/16*d.*, and sellers.

Cocoa Butter.—At auction 25 tons Cadbury's sold at 11⅛*d.* to 11¼*d.*, the average being 11 3/16*d.* or 1/16*d.* dearer.

Copper Sulphate has advanced sharply, Liverpool brands having risen 15*s.* per ton to 20*l.*, and March-April delivery to 20*l.* 10*s.*

Coriander-seed sells slowly at late rates; 8*s.* 6*d.* to 9*s.* per cwt. for common, and 9*s.* 6*d.* to 10*s.* 6*d.* for ordinary to good Morocco.

Cumin-seed is quiet at 35*s.* per cwt. for sifted Morocco, and 37*s.* 6*d.* for fair Malta.

Dill-seed is quoted 10*s.* 6*d.* per cwt. for common and 11*s.* 6*d.* for good.

Dragon's-blood.—Arrivals, comprising about 20 cases in all, have taken place since the last auctions, part fine reboiled lump and part very ordinary.

Ethers manufactured from methylated spirit have been reduced by ½*d.* per lb., the price of the *pure* s.g. .720 being 1*s.* 9d. per lb., s.g. .730 9*d.*, .725 11*d.*, .720 1*s.* 0¾*d.*, treble-refined .725 1*s.* 3¾*d.*, and absolute .717 1*s.* 5*d.* B.P. ethers made from duty-paid spirit are unchanged at 6*s.* 5*d.* per lb. for .735, 7*s.* 2*d.* for .720, and 6*s.* 2*d.* for .750.

Fenugreek-seed is firm at 9*s.* 3*d.* per cwt. on the spot for small lots of Morocco.

Gamboge.—Practically all the good Siam pipe has been cleared off the market, and no arrivals of importance have taken place.

Ginger.—At auction 200 bags of Japanese sold without reserve at 38*s.* 6*d.* for fair limed. Of Cochin and Calicut practically 500 packages were offered and bought in, including unsorted native cut in casks, at from 53*s.* to 55*s.* Washed rough Cochin in bags was bought in at 43*s.* and brown Calicut rough at 42*s.*

Ipecacuanha.—The arrivals comprise about 16 bales Matto Grosso and eleven bales Minas. The offerings next week will include the 40 bales East Indian recently arrived.

Lemon-juice.—The new English crop pressing is now offering at from 1*s.* to 1*s.* 2*d.* per gallon for forward contracts. Stocks in consumers' hands are fairly heavy. It may be remembered that last year prices were driven up to 1*s.* 9*d.* in consequence of the Messina disaster, but quickly fell to 1*s.* 6*d.*, and remained throughout the summer at 1*s.* 3*d.* to 1*s.* 5*d.*

Lime-juice.—Concentrated West Indian is firm at 18*l.* 5*s.*

Linseed is still very dear at 65*s.* to 70*s.* per quarter for good clean on the spot.

Mace.—Steady. At auction 53 packages West Indian sold at from 1*s.* 7*d.* to 1*s.* 9*d.* for fair palish to pale, 1*s.* 6*d.* to 1*s.* 7*d.* for fair to good reddish, and 1*s.* 3*d.* to 1*s.* 4*d.* for broken.

Menthol is firm, with spot sales of Suzuki at 8*s.* 7*d.*, but 8*s.* 8*d.* is now asked; to arrive 8*s.* 6*d.* c.i.f. has been paid for Suzuki and sellers. Kobayashi is quoted 8*s.* 10*d.* spot.

Nutmegs.—At auction 428 packages West Indian were offered, and about 400 of inferior quality sold at from ¼*d.* to ½*d.* per lb. decline; good sound nuts were in small supply and steady.

Oil, Bergamot, is firm, as the new pressing has been hindered by the small supply of new fruit, and some buyers who had previous requirements to fill were compelled to promptly ship new crop goods, this making it possible for sellers to obtain somewhat better figures. For shipment, from 16*s.* c.i.f. and upwards is quoted, and on the spot 16*s.* 6*d.* will buy a good brand.

Oil, Caraway, is extremely dull and prices are cheaper, English offering at 6*s.* 6*d.* per lb., and quantity at less.

Oil, Citronella.—To arrive sales of Ceylon have been made at 11¾*d.* c.i.f. for January-March shipment, and on the spot the value of drums is 1*s.* 1*d.* and cases 1*s.* 2*d.*

Oil, Cod-liver.—Our Bergen correspondent writes on January 3 that the market remains firm, but the demand, as is usual at this season, is very quiet. The quotation for finest non-congealing Lofoten oil is 73*s.* per barrel c.i.f. The total exports from Bergen in 1909 amounted to 16,011 barrels, against 22,215 barrels in 1908. In London quotations are unaltered, business having been done at 71*s.* per barrel c.i.f., but several agents require 73*s.* and even 75*s.*

Oil, Juniper.—The English distillers have advanced their prices for oil distilled from berries to 19*s.* per lb. Exporters of juniper berries quote 17*s.* 6*d.* c.i.f.

Oil, Lemon.—Practically all holders are now asking higher rates, in consequence of the increased export duty on citrate, as referred to below. Prices, which are somewhat irregular, range from 3*s.* to 3*s.* 6*d.* per lb. ci.f., and on the spot several ask 3*s.* 5*d.* to 3*s.* 6*d.*; at the close we hear these prices have been paid. Over 250 packages essential oils have arrived from Sicilian ports this week, the bulk of it no doubt being the balance of previous contracts.

The following advice, dated Palermo, December 31, has been received: "When contracts for forward delivery, to begin from December, were closed in October and November last, it was not anticipated that a new export duty would be imposed on citrate of lime, such as to hinder the manufacture of this article, and by its reaction also reduce the manufacture of lemon oil. In consequence of this, requirements for December or early January shipment were much larger than the reduced output of this season's pressing was able to provide for, and the fulfilment of these requirements upon the market has been such as to force up prices during the last few days, inasmuch as buyers had to look hastily for goods, while holders did not miss the favourable occasion to increase their pretexts. The market has therefore been very firm and rising, the more so that also from abroad (especially Germany) there have been inquiries for both prompt shipment and forward delivery, with some fair business resulting. England and America are generally keeping back so far, awaiting further developments. We may say that the present condition of the citrate of lime and oil pressing industry are such as not to allow a regular development of the production; in fact in some districts it has been proposed to close all the factories early in January, as a kind of demonstration against the intolerable state of affairs which has arisen from the recent increase in export duty. On the other hand, the present conditions will make it absolutely necessary that the new Ministry should take prompt steps in the matter by effecting new provisions."

Oil, Orange.—With a limited production so far, the market continues firm for Sicilian oils, and the fulfilment of previous sales have made it possible for sellers at primary sources to obtain slightly improved rates. Prices of *sweet* are from 6*s.* 4½*d.* *to* 6*s.* 6*d.* per lb. c.i.f. London.

Oil, Sandalwood.—English drawers have reduced their list prices, the quotation for oil from East Indian wood being 12*s.* per lb., with special quotations for quantity.

Oils (Fixed).—*Turpentine* has advanced about 1*s.* on the week, closing at 41*s.* 4½*d.* to 41*s.* 6*d.* for American. *Linseed* is again higher at 32*s.* 3*d.* in pipes, and 32*s.* 6*d.* in barrels on spot. Ceylon *Coconut* is steady at 41*s.* 6*d.* for spot, and at 45*s.* for Cochin, but forward is easier. *Cottonseed* is dearer at 29*s.* 6*d.* for crude, 30*s.* for ordinary pale refined, and 33*s.* 6*d.* for sweet refined. *Rape, soya,*

and *palm* are unchanged. *Petroleum* is nominal at 6*d.* to 6½*d.* for ordinary refined American, 7*d.* to 7¼*d.* for water-white, and 5¾*d.* for Russian.

OPIUM.—The London market remains quite unaltered, practically no business having been done. Should renewed buying take place in primary markets in fair quantities, the probability is that prices will further advance; while, on the other hand, should buyers continue to hold off as they did during December, again easier prices may prevail.

Writing on December 20, a Smyrna correspondent states that the sales amounted to 27 baskets, at equal to 18*s.* for the U.S.A. Market remains firm, with a few sellers, who wish to realise profits. Holders who did not sell last week (when 135 baskets were bought) are holding back, hoping, in consideration of the moderate stocks, to obtain better prices before the end of the season. On account of the approaching holidays, there might be a couple of weeks' quietness, and prices may decline 6*d.* to 1*s.*, in which case buyers will do well to cover part of their needs, as a sudden change in the market is possible, if, as everybody presumes, there are still large wants to be covered on the part of American firms. Owing to the rainy weather during the second part of November and the beginning of December, the sowing did not take place regularly everywhere during that period. But that will have no influence on the crop if the weather continues favourable. Writing on December 25, another Smyrna correspondent states that although business is slack, as is usual at the end of the year, the small stocks prevent holders from being anxious sellers. Arrivals are 1,833 cases, against 1,962 cases, most of them being from Constantinople. In the course of a review on the opium market during the last quarter of the year, the "Quarterly Journal" of the British Chamber of Commerce of Turkey states that the position is interesting and fraught with many possibilities. Statistically, the position is stronger than ever, the stock in Turkey being barely 1,200 cases, and there is six months to run before another crop will be available. The monthly consumption being estimated at 600 cases, there is an apparent deficit of 2,400 cases. Purchases during the past five or six months have been on an unprecedentedly large scale, but it is impossible to say what quantity has gone into makers' hands, and on this depends, to a great extent, the future. It has been rumoured for some months past that a large syndicate is at work, with a considerable quantity of opium under its control, and everything points to this being the case. Large shipments to London and America are unaccounted for, and it is said the goods have been stored out of sight in anticipation of a corner later in the season. The success or failure of the syndicate depends entirely on the stocks held by manufacturers. If they hold sufficient to keep the world supplied for some months more, markets will undoubtedly continue slow and prices gradually tend downwards, unless, of course, the syndicate has enough means and courage to continue buying, a course which would naturally entail increasing stocks at a dangerous level. There have been large sales of Persian for shipment up to January, but we understand less has been offering recently. Large quantities of Persian have been shipped to China, and it is possible that part may find its way back to London. The condition of new-crop sowings is excellent. The seed was put underground during the best period, and the weather has since been all that could be desired.

PEPPER (BLACK).—At auction 126 bags Tellicherry were offered and bought in at 3¾*d.* to 3⅞*d.*; and of Ceylon 23 bags sold at 3⅝*d.* for fair, and 1⅝*d.* to 2*d.* for siftings and small. Privately the spot value of fair Singapore remains at 4 1/16*d.*, and for shipment small sales have been made at 4 1/32*d.* c.i.f. for January-March.

PEPPER (WHITE).—At auction 16 cases superior Singapore were bought in at 9*d.*, and 107 bags fair Muntok at 7⅛*d.* For 56 bags Ceylon offered, a few sold at 6*d.* for ordinary mixed small. Privately the demand on the spot continues quiet, with sellers of fair Singapore at 7*d.* and buyers of January-March shipment at 6¾*d.*, and March-May at 6 3/16*d.* c.i.f. d/w.

PILOCARPINE is offered at rather lower rates, 1-oz. bottles offering at 11*s.* 6*d.* per oz. net.

QUININE.—The tone is rather firmer on the basis of 7⅛*d.* for German sulphate from second hands, while Amsterdam is quoted 7*d.*, and Java 6⅝*d.*; some speculative business is reported for May at 7¼*d.* The bark shipments from Java for the year 1909 have not yet been published, being later than usual.

At auction at Amsterdam on December 31, 1,417 kilos. Ed. II. were offered and sold at an average price of 10.97½fl., against 10.89fl. at the previous auction.

The landings in London during December were 79,392 oz., and the deliveries 90,192 oz., leaving a stock on December 31 of 3,281,936 oz., against 3,351,584 oz. in 1908.

SARSAPARILLA.—The arrivals include 40 packages from Panama per *Tagus*, also 23 bales *viâ* Hamburg. Most of the foregoing is grey Jamaica; fifteen of red native Jamaica have also arrived, and 8 serons rolled Mexican barks.

SHELLAC.—Quiet, with small sales on a basis of 68*s.* for fair free TN orange, and for January-March shipment 67*s.* 6*d.* c.i.f. has been paid. The sales for delivery include TN for January at 68*s.*, March 70*s.* to 69*s.* 6*d.*, and May 70*s.* 6*d.* to 72*s.*

SOY.—Prices for shipment from China remain much above the parity of spot rates. We note the arrival of 150 casks from Hong Kong, which will help to relieve the spot scarcity; sellers ask 1*s.* 5*d.* per gallon duty paid for Wochau.

On December 9 the directors of the Soy Company held a meeting at Tokyo to consider the disastrous condition of the concern. The President (Mr. Suzuki) had acknowledged his responsibility for the loss of 1,000,000 yen resulting from the conduct of the company's business, and 400,000 yen owing to the use of saccharin In satisfaction of this loss he offered to hand over 40,000 shares held by him in the company and also his salt works at Onahama, but as these properties at their present market values do not represent more than half of the total loss, the directors refused to endorse the compromise.

TAMARINDS are firm, with small sales of Antigua at 12*s.* 6*d.* per cwt., and for Barbados 16*s.* is wanted. The stocks of old crop are now small, and some time will elapse before the new is available.

TEREBENE.—Makers' prices of pure have been reduced by 1*d.* per lb. to 1*s.* 4*d.* per lb.

Latex-coagulation Patent Case.

The application by Mr. David Sandmann, of Berlin, against Messrs. Ch. & A. Böhringer, of Colombo, for an interim injunction (see *C. & D.*, November 20, p. 771) to prevent defendants from advertising and selling fluorine compounds, chiefly hydrofluoric acid, for latex coagulation, has been dismissed. The District Judge of Colombo, in the course of his judgment, said that on the day following a demonstration of plaintiff's process and an account of it in the papers the defendants published the following advertisement: "For rubber-planters—hydrofluoric acid—price on application. Ch. & A. Böhringer, Colombo." He was quite unable to understand on what grounds the advertisement was impeached as an infringement of the plaintiff's patented process, and from the nature of the claim for a surrender of all acid and the profits derived from its sale, it would appear that plaintiff regards the patent as conferring on him a selling monopoly, or at any rate of controlling the sale, of all such acid used in the preparation of rubber. He was unable to see any reason or justification for granting the injunction asked for, and dismissed plaintiff's application, with costs.

Otto of Rose.

Messrs. Chas. Zimmermann & Co. send us the following extract from a letter dated December 23, which they have received from their principals, Messrs. Petko Iv. Orozoff et Fils, Kazanlik, Bulgaria: "A buyer for a leading Constantinople house has taken almost all the ottos from the jobbers at prices up to 5f. per muscal (about 23*s.* per T. oz.). After him another buyer came, and as he could not find any more otto on the market, was obliged to buy from —— at 5.30f. per muscal, so that our market is firm and will be so until the next new crop, as there is not any more otto. There are perhaps from 200 to 300 oz., but they refer to parcels which have been rejected by everybody. This otto will probably remain on the market until next June, when it will be redistilled along with the new crop. You will now see that what our competitors wrote about the crop and prices is not true—they knew it, perhaps, but wished to dazzle the perfumers, as usual. . . . As the prices on our market advanced even higher than those of last year, and as there is no more otto on our market, you must maintain our last year's price. It is from ten to fifteen years ago since incidents like the above happened in Kazanlik. Even our competitors are surprised, and do not believe how it is that 5.30f. the muscal has been paid."

PHARMACY STUDENTS' BALL.—The annual ball of the Parisian Pharmacy Students' Association is announced to take place on January 29 at the town-hall of the Fourth Arrondissement, Paris.

Correspondence

Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they are not recorded.

Queries by subscribers on dispensing, legal, and miscellaneous subjects pertaining to pharmacy and its allied trades are replied to in these columns, if they are of general interest.

Letters submitted to the Editor for publication if suitable should be written on one side of the paper only. Their publication in the "C. & D." does not imply our agreement with the opinions of the writers.

Pharmacy in Queensland.

Sir,—As a comparatively recent arrival in Queensland from the Old Country, and on a visit to Brisbane, curiosity led me to look up a fellow-countryman at the College of Pharmacy. I had not the pleasure of knowing Mr. R. C. Cowley (formerly Principal of the Liverpool School of Pharmacy) in England, but, busy as he was, he expressed pleasure at my calling on him. Mr. Cowley was attending a meeting of the Business Committee of the Pharmaceutical Society when I called, and I had the opportunity of looking around. I found about twenty young men busily engaged in various work. I was pleased to observe the concentration of the students on the work they had in hand. When Mr. Cowley was at liberty he piloted me round the College, and reviewed the extent of ground covered in the nine months' course. I was particularly impressed by the number of chemicals manufactured by students and by the way the students were taught to extemporise unusual chemical compounds likely to occur in prescriptions. It is easy to see that conditions in Queensland are not the same as in the Old Country, and students might find themselves at some future time several hundreds of miles away from a source of supplies. I felt that the education provided for them in the Queensland College of Pharmacy eminently fitted them for whatever position they may be placed in. As one who has taken some interest in pharmaceutical education in the Old Country, I cannot help remarking that Queensland is providing an education for the young pharmacist, which is only equalled in England by that provided in the Bloomsbury School of Pharmacy. The chemists of Queensland are to be complimented on their perspicacity in bringing Mr. Cowley from the Old Country, and it is a circumstance which must eventually react on the status of pharmacy throughout the whole Commonwealth. I came away from the College pleased and instructed by my visit.

Faithfully yours,
J. Harrison Jones
(formerly of Wrexham, now of Dalby, Q.).
November 26, 1909.

[It is appropriate to print here some extracts from a letter written by Mr. Cowley a month earlier than the above, which throws further light on pharmaceutical education in Brisbane, and from which we have his permission to quote what we may consider to be of interest generally especially to his old friends and pupils. It may be recalled that Mr. Cowley and his family left Liverpool in the autumn of 1908, and arrived at Brisbane in time for Christmas: "Our College session begins in March and continues to the end of October. Our session closes to-day [October 28, 1909]. College examinations begin next week, and our final exams. on the third Monday in the month. It has been rather stiff work for myself and an assistant during this session. To save students' time and to prevent errors, I have written out a whole series of lecture notes on chemistry and pharmacy, and have had them typed and duplicated. I think most teachers have found the want of a good up-to-date text-book on modern pharmaceutical chemistry. I have endeavoured to supply our wants in the shape of these lecture notes. Next year I will increase the time given to practical chemistry, so that our students will be able to manufacture a larger number of chemicals. We have been able to do quite a lot in this direction already, and our boys are getting quite keen on the work. I found a man making ferrous arsenate one day, and in doing so he used up all our sodium arsenate. He then set about making the sodium arsenate One of our boys made about 4 oz. of excellent tartar emetic from black antimony. We have made quite a large number of organic compounds, more than those mentioned on the Major syllabus in England. In dispensing I give them mixtures containing arsenious bromide, strontium lactate, potassium salicylate, and other unusual salts, so that if they are stranded in the Gulf Country a thousand miles from Brisbane they will be able to make what they want. The average student here picks up quantitative analysis much quicker than I found the average English student did. Altogether the Queensland boy is not a bad young fellow, and I get along with him wonderfully well. The Pharmaceutical Society of Great Britain need not have any hesitation in arranging for reciprocity with Queensland. I will guarantee our students will give points to most English students.

"Our winter, which is just over, has been delightful; there is no better climate, I am sure, in the world. The summer is certainly hot, but not so hot as I anticipated. Houses are difficult to get in Brisbane. They are all, or nearly so, built of wood, on posts several feet above the ground. Most of them are one-storeyed, and all are provided with broad verandahs on account of the sun. During the summer months people live on the verandahs. The moonlight nights are lovely. They remind one of the harvest moons at home, and one looks instinctively for the crisp atmosphere accompanying these moons at home. However hot the day is, the nights are cool, and one is able to sleep. I am glad to see the *C. & D.* weekly. It is a glimpse of home, and it keeps one in touch with what is going on. The *C. & D.* is highly appreciated throughout Australia, and no other journal dealing with pharmaceutical matters comes near it in our estimation. Just at present we are in the throes of an agitation for an amended Pharmacy Bill. This has entailed a good deal of work on me during the recent general election. I think we have reasonable hopes of improving our position. Our great difficulty is in having a bad Poisons Act. Cutting in proprietary articles is just as bad as at home, but prices for dispensing have been kept at what I used to remember in the West-end of London. Chemists' assistants are well paid. Living is somewhat more costly than in the Old Country, but on the whole a young qualified man is better off than in England. The minimum salary for a young qualified man is 3*l.* per week. There are, of course, poor businesses as well as good, but I think there are better opportunities here than at home. As far as I can see, the style of business is much like that at home, but, generally speaking, there is not the same attention given to detail."—*R. C. Cowley.*]

Standards of Excellence.

Sir,—I have read with much interest Mr. J. U. Lloyd's remarks on drug standardisation in your issue of January 1, but it is difficult to see what he is driving at. It appears to me that he is setting up a bogey of his own imagination when he speaks of "a chemist or a committee who, thinking only of the conspicuous agent, may ignore the milder entities and . . . establish a very one-sided standard which may neglect unseen qualities that lie beyond," &c. I understand Mr. Lloyd is a poet and a man of genius, and this flowery language may represent something substantial to him, but to men who have to deal with hard facts in their daily business something more positive is wanted. Apparently he means that we are to study a drug as "a balanced whole," and the results obtained from such study will be more satisfactory than those based on drugs that are standardised on the most toxic principle. Does he also mean that his "balanced whole" drug is always a uniform entity? If he says it is, then we know where we are. If he admits it is not, then we ask him how he is going to compare the results got from the study of two samples of the drug which may be quite different in toxicity and in therapeutic value, if he does not know they are different? And what value is to be attached to opinions formed on such a basis?

Mr. Lloyd's ideas would be excellent if we could rely on two things: first that Nature would furnish drugs identical in quality, and, secondly, that the druggist would keep his drugs so that they would always remain uniform and never vary in any degree. As to the first, the great trouble is that Nature declines to be standardised. She makes one man 6 ft. high and another man 4 ft., and all sorts and sizes between. And this is just what happens with plants. One lot of nux-vomica seeds contains more strychnine and less brucine and extractive (say) than another. What kind of "balanced" result is a doctor going to get if one day his patient gets a tincture containing 2 per cent. of strychnine, and next week a tincture containing ½ per cent.? It is easy to talk of the "subjugation of associated factors." Two

difficulties arise here, however—how are the factors to be got at, and how are they to be subjugated when you have them, if not by the isolation of the most active constituents of the drug, or in other words by standardisation? To speak of finding the "conspicuous agent" and "ignoring the milder entities" is simply that process known as trailing a red herring across the scent. No one ignores "the milder entities," at least no apostle of standardisation that I know of. The milder entities are all there, and they are there in association with an average proportion of the "conspicuous agent," and thus a uniform preparation is produced, from the study of whose "balanced whole" some really satisfactory result may be arrived at. Mr. Lloyd's view is apparently that one ought simply to use the drugs as Nature grows them, no matter what the soil and climate or country in which they are grown. Unfortunately, or, rather, fortunately, he is ten years too late, and he will have some difficulty in turning back the hands of the dozen pharmacopœial clocks that have been set to "standardised" time. The other fact is that even if we could get Nature to produce uniform or standard drugs the trouble is that man comes in, and he has to father, dry, store, age, and sell the drugs, and everyone of these operations may affect the value of the drug. I do not wish to elaborate this point, but its mere statement should be sufficient to convince anyone that while Mr. Lloyd's rhapsody makes nice poetry, it will not "cut much ice," as our cousins say, in the region of cold, stern fact. Yours truly,

A. O. H. (29/27.)

Standardisation of Disinfectants.

Mr. Thos. Alex. Cook, managing director of Messrs. Edward Cook & Co., Ltd., Bow, writing in respect to Mr. C. T. Kingzett's letter in our issue of December 25, 1909, regarding the standardisation of disinfectants, asks "why Mr. Kingzett wishes to prove the impossibility of standardising disinfectants. One would think that every scientific manufacturer, every ratepayer, and every head of a family would believe this to be a desideratum." He then contrasts remarks in Mr. Kingzett's letter with statements in the Sanitas Co.'s publications, and as to Mr. Kingzett's claim that one of his company's products "takes top place when compared with carbolic acid," remarks:

"In referring again to the report, we find this product when classified as follows:

Comparative cost, in pence, of 100 units of efficiency

$$= \frac{\text{price ratio to carbolic acid}}{\text{germicidal ratio to carbolic acid}} \times 100$$

yields the figure 11.5*d*.

"In 'The Lancet' of December 18 appeared a letter from me from which I extract the following passage:

> May we point out that if 'Cofectant' is bought in 4-gal. tins it costs 4*s*. 3*d*. per gal., which works out at 0.319*d*. per fl. oz.? Supposing one adds 33 per cent. for the profit of the retailer, this brings it up to 0.425*d*. per oz.; divide this by 9.8×100, and the figure in your last column becomes 4.33*d*. Again, if purchased in 40-gal. casks, our price is 3*s*. 9*d*. per gal., which works out at 0.2812*d*. per fl. oz.; add 33 per cent., and this brings it to 0.3742, which, divided by 9.8×100, gives a price of 0.381*d*. for your last column. You will see that 'Cofectant' bought in bulk is enormously cheaper even than crude carbolic acid.

"Can Mr. Kingzett have failed to notice this letter?"

The Situation and the Future.

SIR,—There are two excellent letters in your issue of January 1 from "Organiser" and "Northumbria." I am glad someone else has the idea that the Pharmaceutical Society have not the power to do their duty to the trade while so many chemists remain non-members. If the Society really wish to be useful and representative they must do their best to bring every chemist into their ranks, and the best way to do this is to separate the "Journal" from the membership-fee and reduce that fee. If they charged 7*s*. 6*d*. for membership and 10*s*. for the "Journal" they would swell their ranks to a great extent. The position of the chemist of the present day is a peculiar one. Dispensing, his main item, is fast passing into the hands of the doctors; and what training have they for it? It is well known that there are plenty of unscrupulous men in their ranks, and the mag. sulph., sodii bicarb., and sacchar. vet. mixtures, together with a few samples, are very much in evidence. But we have no power to stop them. The dentist has cut away a source of income to a great many chemists; the grocers stock everything they possibly can. In fact, we are getting pretty well fleeced all round, without the means of retaliation. Now, our "profession" is no less responsible than the doctor's; we have our customer's life in our hands to as great an extent as the doctor, and more so than the dentist, while the veterinary surgeon has only animals to deal with. Still, we seem to be coming to a better state of things; there is not the antagonism in our ranks there was a few years ago; and if the Pharmaceutical Society would only waken up at the present moment they could enlist enough members to make the Society representative and raise enough money to carry a Pharmacy Bill through Parliament that would place the chemist in his rightful position.

S. C. S. (32/51.)

Subscribers' Symposium.

The late Mr. F. Armstrong.

To perpetuate the memory of the late Frank Armstrong, of Muter's, may I suggest something in the way of an "Armstrong Bench" in laboratory of the South London School of Pharmacy? I am quite safe in saying there are hundreds who would support it or any similar scheme.—*B. L. Burrell* (*Sheffield*).

"Most Excellent and Valuable Journal."

From a Spanish Subscriber (134/13).—"Enclosed please find cheque for 10*s*. for the renewal of my subscription for the year 1910. I duly received the *Diary*, which is interesting, as usual, and a most useful reference-book for buyers like myself abroad."

I think I look forward to Friday and the *C. & D.* more than anything else in the week, and I often tell my people I would forego many luxuries rather than the *C. & D.* I am very pleased with the several new features that have been added recently, and wish you, sir, and the whole staff a very Happy and Prosperous New Year.—*Spencer H. Plattin* (*Nottingham*).

How should Ammon. Carb. be Kept?

On opening a 1-lb. bottle of Howards' ammon. carb. resub. can anything be done to prevent the contents becoming coated with the "mild carbonate" beyond closing the bottle well? I have tried bottling off into smaller bottles carefully closed, with partial success. It does not seem practicable to keep it immersed in syrup, which, I believe, is done in one of the commercial processes. Any information will oblige.—*Rus.* (32/42.)

National Union of Assistant Pharmacists.

Members are hereby informed that the publishing of the proposed official organ of the Union, "The Assistant Pharmacist," has been postponed until after the next meeting of the Executive. I desire to ask assistants in all constituencies to write the Parliamentary candidates in the matter of the Shop-hours Bill and ask their support for the inclusion of chemists' assistants, and also of the alteration to the main provision of the Bill to sixty hours, inclusive of adequate meal-times.—*Edw. S. Francis* (Hon. General Secretary).

Apothecaries' Assistants.

Lux (31/4), writing in regard to the claim of apothecaries' assistants to be registered under the Pharmacy Acts, remarks that "The apothecaries' examination syllabus says nothing about qualifying the recipient of their certificate as a dispenser but as an assistant *only*, as extracts from syllabus show: (1) The certificate qualifies the person as an assistant in dispensing. (2) The certificate confers no right on the person to whom it is granted to assume any title. (3) A person eighteen years of age may enter as a candidate." *Lux* proceeds to argue that the examination is not equal to the "Minor," and that those who pass it are not entitled to the desired registration.

What is the Good of Salt?

For the information of "Saline," I may say that I find that salt eaten with boiled eggs renders them very indigestible.—*Rusticus.* (32/50.)

The practice of not taking salt with food appears to be both physiologically and economically sound, as it is generally taught by physiologists that any ordinary diet contains within itself sufficient sodium chloride for the requirements of the body. It has also been shown recently that in cases of renal inadequacy a salt-free diet has great advantages, an excess of it tending to promote œdema of the tissues, the explanation being that chlorides, though not poisonous in themselves, lead to the retention of other matters in the tissues, many of these being highly toxic. Widal has shown

that in kidney affections uræmic symptoms may be provoked or suppressed by increasing or withdrawing the supply of salt. Hence, in late years, the prescription of a salt-free diet has been orthodox treatment in Bright's disease, gout, and epilepsy.—*M. B.* (30/89.)

"Saline" thinks he is "practically a non-salt eater," but I fancy he is the unconscious victim of a delusion. We are all salt-eaters, whether we think it or not. "Saline" wants to know where he is to look for the consequences of his not eating salt, but the first question is, Has he stopped eating it? There is salt in everything we eat. Nature makes few mistakes, and when she provided that blood plasma should contain 0.9 per cent. of salt we may assume that she did not blunder, and, considering the great loss of chlorides that goes on from day to day, it is evident that salt is one of the necessities of life. The average quantity of urine voided in twenty-four hours is 2¼ pints, and this means the loss of more than an ounce of salt every three days, not to speak of the quantity lost through the skin by perspiration. During a year we lose something like 10 lb. of salt on the average, and any book on physiology will tell how long it would take to draw off every possible ounce of salt from the body if no more were coming in. The fact is it would not be long before we were tottering into the grave, for we may die without salt, but we cannot live without it. One of the normal constituents of the gastric juice is hydrochloric acid. If the chlorides are constantly being drained off and none being introduced, what is going to happen? *Ex nihilo nihil fit*; and if no chlorides are brought in it will be impossible for the animal economy to manufacture hydrochloric acid, and then where are you? I think, therefore, that "Saline" must still reckon himself as an eater of salt.—*M. T.* (30/90.)

Legal Queries.

Consult the legal information in "The Chemists' and Druggists Diary," 1910 before writing about your difficulty.

Inquirer (20/49).—We published all the facts of the case which publicly transpired.

W. J. P. (117/35).—It is not illegal for a registered chemist to sell his business to an unqualified person.

Subscriber (11/37).—The use by medical practitioners of door-lamps with their names upon them is advertising, but is not considered to be infamous conduct in a professional respect.

Subscriber (India, 29/58).—A licentiate of the Apothecaries' Hall of Dublin, if registered as a medical practitioner, may keep open shop in England for the sale and dispensing of drugs and poisons.

Subscriber (31/19).—If the balsamic syrup is a medicinal preparation, it would be liable to medicine stamp-duty on account of the word "balsamic," the Revenue authorities having obtained a magistrates' decision to the effect that "balsam" in itself indicates the action of the remedy.

Miscellaneous Inquiries.

As we do not in this section repeat information given during the past twelve months, inquirers should refer to the copies mentioned. Back numbers for the past five years can generally be obtained from our office at the published prices.

S. E. W. (30/55).—The dark patches appearing during pregnancy are known as "Chloasma." They usually disappear with the termination of pregnancy. A ½-per-cent. solution of mercuric chloride in rectified spirit, applied at night, and kept moist with oiled silk, may be used as treatment, its action being watched, as it may blister. Unna recommends the following ointment:

Adipis lanæ anhydr.	...	5j.
Paraff. mollis	...	5ij.
Hydrogen perox. (10 vols.)	...	℥ss.
Hydrarg. perchlor.	...	gr. j.
Bismuth. oxychlorid.	...	gr. x.

Apply at night.

Unna's sodium-peroxide soap may also be used.

H. F. S. (124/26).—Drug-trade in Sierra Leone.—The practice of pharmacy in this West African British Colony is controlled by Ordinance based upon the Pharmacy Act, 1868, which requires that all persons carrying on the business of a druggist must be examined as to their skill and knowledge and be licensed. A Board of Examiners is appointed by the Governor, but pharmaceutical chemists and chemists and druggists of Great Britain and Ireland are admitted without examination. The population of the Colony (1,326,773) comprises comparatively few whites, these being chiefly officials and traders, and we are not aware of any pharmaceutical chemists or chemists and druggists of this country who have gone out for the purpose of starting retail pharmacies; in fact, the retail trade is in the hands of native druggists, who alone are capable of meeting the requirements of the mixed population. Some of these are subscribers to the *C. & D.* and importers of English and American goods. The American Consul at Sierra Leone says there is a "large opening" for pharmacists (see *C. & D.*, January 1, p. 28), but we are not able to endorse this statement, and cannot advise you to go out there, especially as the climatic conditions are not the most favourable to white men.

Vesicans (11/30).—Cure Blister, "V.C.P.," p. 163:

Hydrarg. iod. rub.	...	5ij.
Iodi	...	5j.
Hydrarg. oleat. (20 per cent.)	...	5j.
Ung. hydrarg. fort.	...	5ij.
Ung. resinæ ad	...	℥ij. M.

We would compound this as follows: Rub the iodide and iodine together in a mortar fairly smooth, gradually working in 1¼ oz. of resin ointment; then add the blue ointment and the oleate. It is a curious mixture, and some chemical change in it is inevitable.

A. R. (123/12).—The usual conditions upon which young women are received in London hospitals to be Trained as Nurses is that they shall give their services for at least three years. They must be twenty-one years old before entering, and application should be made well in advance, as in many cases the waiting lists last for a year or more. You will find a complete list of the London hospitals in the *C. & D. Diary*. Applications should be addressed to the Secretary in each case. General hospitals are usually chosen.

Yeast (32/74).—"German Yeast" has the same property as brewers' yeast in fermenting sugar, but in brewers' yeast other micro-organisms are present which have the property of producing flavour which is absent from beer brewed with "German yeast." You do not say whether you use the yeast for making beer or bread, so that we are not able to advise you properly. Full particulars should be given in all queries of the objects desired, as well as the conditions which have led to the query being submitted to us.

Our Retrospect.

(From the "C. & D.," January 14, 1860.)

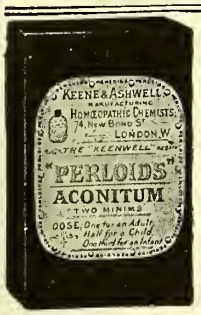
The Education of Chemists and Druggists.

Mr. T. Anderson, 30 Duke Street, Manchester Square, London, W., communicated an article on the education of young rising chemists, in which he expressed regret that Mr. Haselden had written in the "Pharmaceutical Journal" recommending a course comprising a fair knowledge of arithmetic, orthography and caligraphy, geography, geometry, Latin, Greek, French, and German, then an apprenticeship for three years, and at the expiration of that time a year's attendance at lectures of the Pharmaceutical Society upon practical pharmacy, chemistry and toxicology, materia medica and botany, before commencing business. Mr. Haselden had observed that a compulsory educational enactment appeared to him to be the only available and effectual course to be adopted. "Why," asks Mr. Anderson, "does not Mr. Haselden recommend the Apothecaries' Hall as an asylum after all the expense and labour which he would necessitate? It would not become the dignity of any man educated upon the system proposed by Mr. Haselden to be a mere vendor of drugs, oils, and paints; and we find that nearly two-thirds of the chemists and druggists are obliged so to mix up their trade, and if not with oils and paints, with the sale of nostrums or the manufacture of some preparation requiring no chemical knowledge whatever. There is and always will be a necessity for a highly educated and intelligent, but necessarily limited class, who stand at the head of the profession; and as long as this is the case, such men will be found; but to render it incumbent upon all to labour for those high attainments, which can only be of service to the few, would be a great injustice, inasmuch as it would entail an unnecessary waste of time and expenditure on a large number to whom high intellectual attainments are of little or no value in their calling."

Doctor, to a man named Goldup: "Why, you know, you're lucky, being so well off."—Goldup: "Why, sir?"—Doctor: "Why, isn't your name Goldup?"—Goldup: "Look here, Doctor, it's all very well, but I know what *you* like best, and that is 'Gold down.'" Collapse of the doctor.

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3 ,, **37/-** do. do. or **36/-** do. do.

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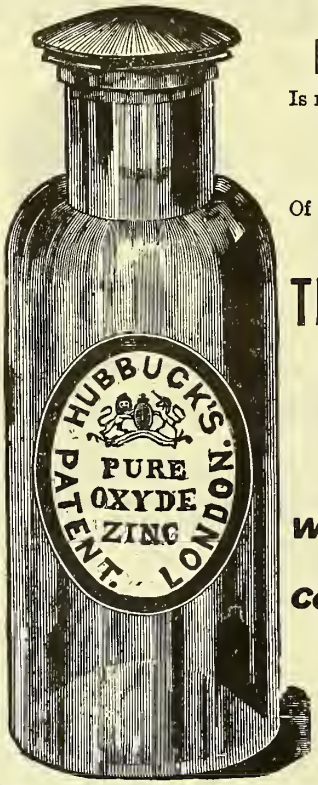
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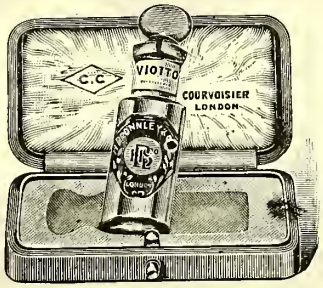
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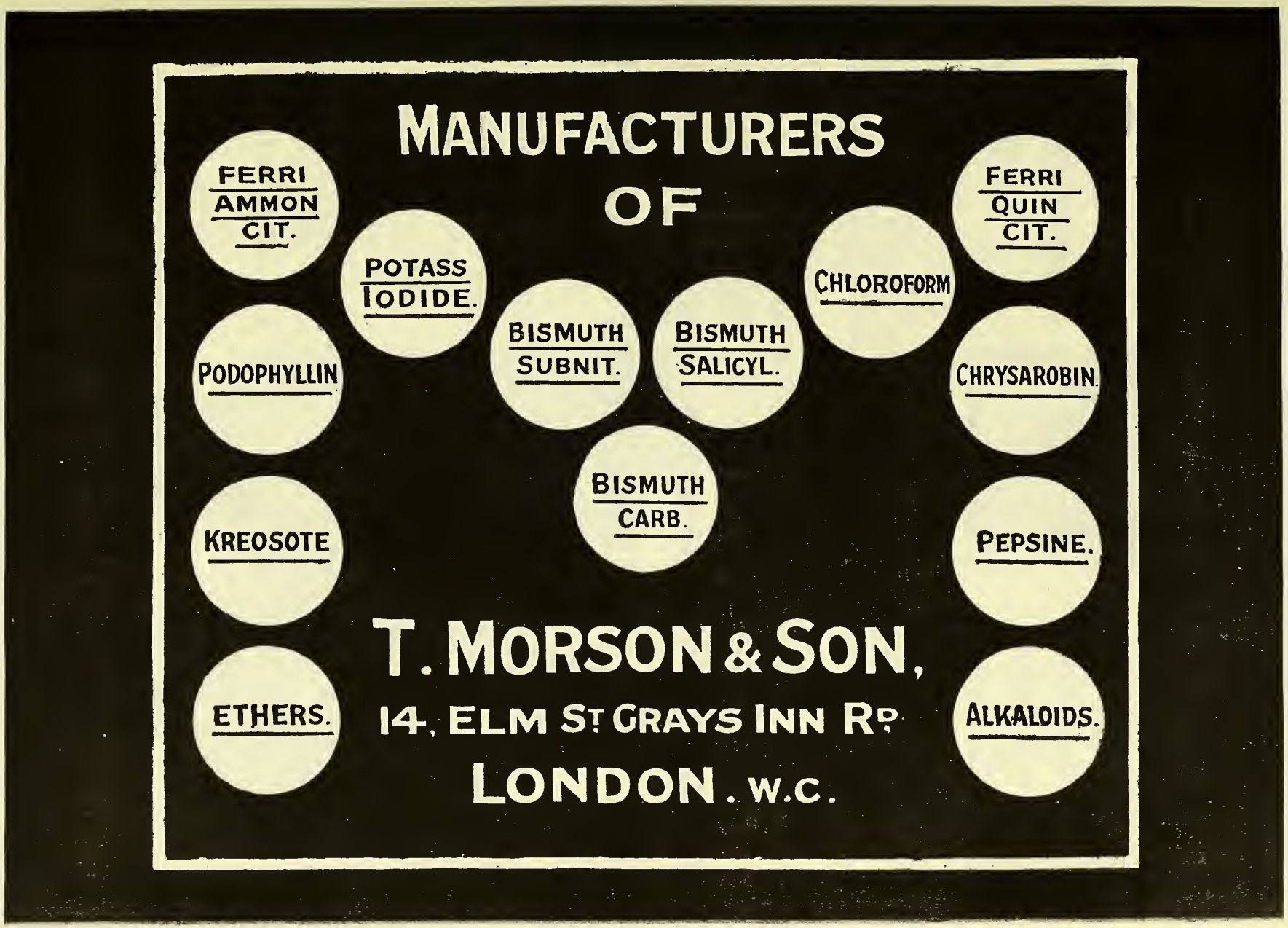
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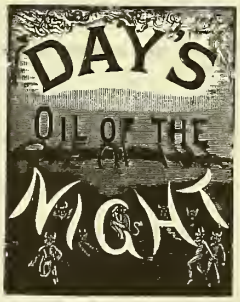
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„ **Oxalic Cryst.**, 5 cwt. @ 3⅜d. lb.; 1 cwt. @ 3⅝d. lb.; 14 lbs. @ 3¾d. lb.

„ Salicyl. pulv., 7 lbs. @ 1/1 lb.; phys. pure, 1 lb. @ 3/- lb.

„ Tart., cryst. or pulv., B.P. 1885, 1 cwt. @ 9¾d. lb.; 7 lbs. @ 10¾d. lb.; parv. ½d. lb. extra.

Ammon. Benz., 7 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.

Ammon. Brom., P.B., 1 cwt. @ 1/1½ lb.; 7 lbs. @ 1/3 lb.

Ammon. Carb. lump, 3 cwt. @ 3⅜d. lb.; 28 lbs. @ 4½d. lb.; 7 lbs. @ 5d. lb.; powder, ½d. lb. extra.

Ammon. Chlor., 99% pulv., 1 cwt. @ 33/- cwt.; 7 lbs. @ 4d. lb.; Batteries, 4/- cwt. extra.

Amyli Pulv., 10 cwt. @ 13/3 cwt.; 2½ cwt. @ 13/9 cwt.; 1 cwt. @ 15/3 cwt.

Aniseed, English ground, 1 cwt. @ 35/- cwt.; 7 lbs. @ 5d. lb.

Antim. Crocus Pulv., 1 cwt. @ 33/- cwt.; 7 lbs. @ 5d. lb.

Antim. Nig. pulv., 1 cwt. @ 25/6 cwt.; 14 lb. @ 33/- cwt.

*Aqua Anethi Conc. 1-40, 1 lb. @ 2/11 lb.

* „ Anisi Conc. 1-40; 1 lb. @ 3/1 lb.

* „ Cinnam. Conc. 1-40, 1 lb. @ 3/4 lb.

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* „ Buchu Conc. 1 to 7, 6 lbs. @ 1/3 lb.

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* „ Gentianæ Co., 1 to 7, 6 lbs. @ 11d. lb.

* „ Quassiæ Conc., 1 to 7, 6 lbs. @ 9d. lb.

* „ Rhei Conc., 1 to 7, 6 lbs. @ 1/5 lb.

* „ Rosæ Acid. Conc. 1 to 7, 6 lbs. @ 1/8 lb.

* „ Senegæ Conc., 1 to 7, 6 lbs. @ 2/- lb.

* „ Valerian Conc., 1 to 7, 6 lbs. @ 1/3 lb.

Honey, fine White Set., Jamaica, 3½ cwt. @ 36/- cwt.; 28 lbs. @ 47/- cwt.; Californian, ½ cwt. @ 56/- cwt.; 7 lbs. @ 8d. lb.

Lin. Camph. P.B., 40 lbs. @ 10½d. lb.; 9 lbs. Lin. Sapo Meth., 9 lbs. @ 7d. lb. [@ 11½d. lb.

Linseed c. Oil, Crushed, 3 cwt. @ 18/- cwt.; 1 cwt. @ 18/6 cwt.

*Liq. Ammonii Acetatis Conc. 1-7, 6 lbs. @ 8d. lb.; 1 lb. @ 10½d. lb.

*Liq. Ammon. Aromat., 6 lbs. @ 9d. lb.

* „ Bismuth. P.B., 6 lbs. @ 10½d. lb.

* „ Copaiba Bucha et Cubeb, 5 lbs. @ 2/6 lb.; 1 lb. @ 2/10 lb.

* „ Easton., p.s. 1-3, B.P., 1 lb. @ 3/- lb.

* „ Ferri Iod. p.s. 1-7, 1 lb. @ 5/9 lb.

Ol. Olivæ, P.B., Flav., 45 gall. Barrel @ 4/3 gall.; 2 galls. @ 5/3 gall.

Rad. Glycyrrh., English ground, 1 cwt. @ 20/- cwt.; 7 lbs. @ 3d. lb.

Rad. Rhei, E. I., English ground, 1 cwt. @ 1/- lb.; 28 lbs. @ 1/1½ lb.; 7 lbs. @ 1/3 lb.

Rad. Rhei E. I., Trimmed, 7 lbs. @ 4/6 lb.; 1 lb. @ 4/9 lb.

Resorcin, B.P., 7 lbs. @ 2/11 lb.; 1 lb. @ 3/4 lb.

Saffron, Valentia, B.P., 1 lb. @ 34/- lb.; 1 oz. @ 2/6 oz. [7 lbs. @ 7d. lb.

Sal. Acetos, 1 cwt. @ 5½d. lb.; 56 lbs. @ 6½d. lb.; Salicinum, B.P., 1 lb. @ 16/6 lb.

Salol. B.P., 7 lbs. @ 2/3; 1 lb. @ 2/6 lb.

Sang. Draconis pulv., English Ground, 1 cwt. @ 1/10½ lb.; 7 lbs. @ 2/0½ lb.

Santoninum, P. B. 7 lbs. @ 36/6 lb.; 1 lb. @ 36/6 lb.

Sapo Cast. Alb. 10 cwt. @ 23/- cwt.; 2 cwt. @ 24/- cwt.; 7 lbs. @ 3½d.; pulv., 1 cwt. @ 58/6 cwt.; 56 lbs. @ 62/- cwt.; 7 lbs. @ 7½d. lb. Animal pulv., 1 cwt. @ 53/- cwt.; 56 lbs. @ 6d. lb.; 7 lbs. @ 7d. lb.

*Tinct. Aurantii Recens, B.P., 5 lbs. @ 3/6 lb.; Bond 8½d.

*Tinct. Belladon., B.P., 5 lbs. @ 2/11 lb.; Bond, 6½d.

*Tinct. Benzoini Comp., P.B., 5 lbs. @ 3/5 lb.; Bond, 8½d.

*Tinct. Camph. Comp., P.B., 5 lbs. @ 2/5 lb.; Bond, 6⅜d.

*Tinct. Cantharidis, P.B., 5 lbs. @ 3/9 lb.; bond, 6d. lb.

*Tinct. Capsici, B.P., 5 lbs. @ 3/3 lb.; bond, 6d. lb.

*Tinct. Card. Comp., P.B., 5 lbs. @ 2/6 lb.; bond, 6½d. lb. [6⅜d. lb.

*Tinct. Cateehn, P.B., 5 lbs. @ 2/8 lb.; oond,

*Tinct. Chlorof. c. Morph. Comp., B.P., 1885, 5 lbs. @ 1/11 lb.; bond, 1/5½ lb.

New Revised and Enlarged Detailed Price List has been posted to all our esteemed clients.

From various quarters for some time past clients have written us stating that they have been informed that the **Quality** of some of our Goods is not as represented by us, and asking if the goods are right and will pass the necessary Tests. We fear this unfounded rumour is circulated owing to the severe competition to obtain orders. However, if these assertions are persisted in, to protect our own reputation we shall be compelled to take serious notice of them by offering a Handsome Reward for such information as will lead to a successful refutation of same. We trust, however, this timely Notice will be sufficient to induce those to whom this applies to desist from these methods in future.

*Aqua Aurant. Trip., 53 lbs. @ 17/6; 6 lbs. @ 7d. lb.

* „ Aurant. Conc., 1-40, 1 lb. @ 6/1 lb.

* „ Rosæ Trip., 53 lbs. @ 17/6; 6 lbs. @ 7d. lb.

* „ Rosæ Conc. 1-40, 1 lb. @ 6/- lb.

* „ Samb. Trip., 53 lbs. @ 23/6; 6 lbs. @ 8d. lb.

* „ Samb. Conc., 1-40, 1 lb. @ 6/1 lb.

* „ Laurocerasi, 53 lbs. @ 17/6; 6 lbs. @ 7d. lb.

* „ Menth. Pip. Conc. 1-40, 1 lb. @ 3/- lb.

Bals. Copaibæ pure, 44 lbs. @ 2/- lb.; 9 lbs. @ 2/3 lb.; 1 lb. @ 2/6 lb.

Bismuth, P.B. Carb., 14 lbs. @ 7/9 lb.; 3 lbs. @ 8/1 lb.; subnit., 1/- lb. less.

Camphor, English Flowers, "not artificial," 5 lbs. @ 1/10 lb.; ½ oz. 7 lbs. @ 1/11 lb.; ½ oz.; 7 lbs. @ 2/3½ lb. Crude, good white, about 92% as imported, 140 lbs. @ 1/4 lb.; 28 lbs. @ 1/5 lb.

Ess. Lemon, 12 lb. Copper @ 3/- lb.; 6 1-lb. bots. @ 3/6 lb.; not guaranteed absolutely pure.

Ext. Cascara Sag. Liq., B.P., 10 lbs. @ 1/2 lb.

*Ext. Ergot. Liq. P.B., 5 lbs. @ 2/11 lb.; 1 lb. @ 3/2 lb.

Ext. Hyoscyam., Solid, B.P., 3 lbs. @ 5/6 lb.; 1 lb. @ 5/11 lb.

*Ext. Ipecac. Liq. P.B., 5 lbs. @ 10/6 lb.; 1 lb. @ 11/3 lb.

„ Maltl c. Cl. Jecoris, 10 lbs. @ 5½d. lb.

*Ext. Nucis Vom. Liq. B.P., 5 lbs. @ 3/- lb.; 1 lb. @ 3/3 lb.; solid, 5 lbs. @ 2/9 lb.; 1 lb. @ 3/-.

Ferri et Quininæ Cit., P.B.; 500 ozs. @ 3d. oz.; 100 ozs. @ 3½d. oz.; 25 ozs. @ 3¾d. oz.

Formaldehyde, 40%, 132-lb. Carboys @ 52/- each. 7 lbs. @ 7½d. lb.

Paraldehyde, B.P., 7 lbs. @ 1/10 lb.; 1 lb. @ 2/-lb.

Phenacetin, P.B., pulv. 1 cwt. @ 2/8 lb.; 7 lbs. @ 2/10 lb.; 1 lb. at 3/- lb.

Phenazone, P.B., 7 lbs. @ 6/11 lb.; 1 lb. @ 7/6 lb.

Phenolphthalein, 7 lbs. @ 3/6; 1 lb. @ 9/- lb.

Pix. Burgund. Druggists' 1½ cwt. @ 22/6 cwt.; 7 lbs. @ 4d. lb.

Plumbi Acetas, Druggists', 1 cwt. @ 32/6 cwt.; 7 lbs. @ 4½d. lb.; Powder, 1d. lb. extra.

Potas. Acetas. Gran. P.B., 28 lb. @ 1/- lb.; 7 lbs. @ 1/1 lb. [4d. lb.

„ Bicarb. pulv., 1 cwt. @ 32/6 cwt.; 7 lbs. @

Potas. Brom. P.B., 1 cwt. @ 11d. lb.; 28 lbs. @ 11½d. lb.; 7 lbs. @ 1/- lb. [5d. lb.

„ Chlor. Pulv., 1 cwt. @ 4d. lb.; 7 lbs. @

Potass. Cit., B.P., 7 lbs. @ 1/6 lb.

„ Cyanidum 98 %, 1 cwt. @ 11½d. lb.; 7 lbs. @ 1/2 lb

Potass. Iod. P.B., 1 cwt. @ 7/9 lb.; 14 lbs. @ 7/10 lb.; 3 lbs. @ 7/11 lb.

„ Permang., Cryst., 1 cwt. @ 38/- cwt.; 7 lbs. @ 5d. lb.; large cryst., 7 lbs. @ 6d. lb.

Pulv. Glycyrrh. Co. B.P. (Green), English Ground, 56 lbs. @ 31/- cwt.

„ Ipecac. Comp. P.B., 1 lb. @ 3/3 lb.

„ Rhei Comp. P.B., 1 lb. @ 1/2 lb.

Quinine Bisulph, 100 oz. @ 8d. oz.; 25 oz. @ 9d. oz.; 10 oz. @ 10d. oz.

Quinine Ethyl Carb. (Tasteless), 100 oz. @ 2/5 oz.; 10 oz. @ 2/9 oz.

Quininæ Hydrobromas or Salicylate, B.P., 100 oz. @ 11½d. oz.; 25 oz. @ 1/0½ oz.; 10 oz. @ 1/2 oz.

Quininæ Hydrochlor., B.P., 100 oz. @ 11d. oz.; 25 oz. @ 1/- oz.; 10 oz. @ 1/2 oz.

Quininæ Sulph., B.P., 100 oz. @ 6¾d. oz.; 25 oz. @ 7½d. oz.; 10 oz. @ 8d. oz.

*Tinct. Cinchon. Comp., B.P., 5 lbs. @ 3/4 lb.; bond, 10½d. lb.

*Tinct. Cinchon. Rub., P.B., 5 lbs. @ 3/- lb.; bond, 10d. lb.

*Tinct. Digitalis, B.P., 5 lbs. @ 2/8 lb.; bond, 6½d. lb.

*Tinct. Gelsem. B.P., 5 lbs. @ 2/10 lb.; Bond, 6½d.

*Tinct. Gentianæ Comp., B.P., 5 lbs. @ 1/11½ lb.; bond, 6½d. lb.

*Tinct. Hyoscyami, B.P., 5 lbs. @ 2/5 lb.; bond, 6½d. lb.

*Tinct. Iodi, B.P., 5 lbs. @ 3/11 lb.; bond, 1/1½ lb.; decolor, 5 lbs. @ 4/3 lb.; bond, 1/0½.

*Tinct. Lavandulæ Comp., B.P., 5 lbs. @ 3/10 lb. bond, 7¾d. lb.

*Tinct. Myrrhæ, B.P., 5 lbs. @ 3/9 lb.; bond, 9¾d. lb.

*Tinct. Nucis Vom., B.P., 5 lbs. @ 2/10 lb.; bond, 6d. lb.

*Tinct. Opii, B.P., 5 lbs. @ 3/5 lb.; bond, 2/- lb.

*Tinct. Opii Amon., B.P., 5 lbs. @ 3/4 lb.; bond, 2/0½ lb.

*Tinct. Opii Aquos., 5 lbs. @ 2/1 lb.

*Tinct. Quiniæ Amm., B.P., 5 lbs. @ 2/6 lb.; bond, 11d. lb.

*Tinct. Rhei Co., B.P., 5 lbs. @ 2/2 lb.; bond, 8d. lb.

*Tinct. Scillæ, B.P., 5 lbs. @ 2/6 lb.; Bond, 7½d.

*Tinct. Senegæ, P.B., 5 lbs. @ 3/1 lb.; bond, 1/3½ lb.

*Tinct. Strophanth., P.B., 5 lbs. @ 3/5 lb.; bond, 8½d. lb.

*Tinct. Valerianæ, 5 lbs. @ 2/8 lb.; bond, 6d. lb.

*Tinct. Valerianæ Ammon., P.B., 5 lbs. @ 3/1 lb.; bond, 8½d. lb.

Ung. Hydrargyri B.P., 28 lbs. @ 1/11½ lb.; 7 lbs. @ 2/1½ lb.

„ Resinæ, P.B., 28 lbs. @ 10d. lb.; 7 lbs. @ 11d. lb.

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Cap. Papaveris Alb. ... ... 2/6 100.
Carmine, Chemically Pure. .. 1 lb. 17/6 lb.
Caryophylli Zanzibar. ... 7 lbs. 7d. lb.
,, Pulv. ... ... 7 lbs. 8d. lb.
Cera Alba Genuine, Moons.... 4 lbs. 1/8 lb.
,, Flav. Genuine Refined. 4 lbs. 1/6 lb.
Cerium Oxalate B.P. ... ... 1 lb. 1/6 lb.
Cetaceum Alb. B.P. ... ... 7 lbs. 1/5 lb.
Chloral Hydras Recryst. B.P. 1 lb. 4/8 lb.
Chloroform B.P. ... ... 8 lbs. 1/8 lb. (3 1-lb. Bots. 1/10½ lb.)
Chrysarobinum B.P. ... ... 1 lb. 7/6 lb.
Cocain. Hydrochlor. B.P. ... 8 ozs. 7/9 oz.; oz. 8/- oz.
Coccus Cacti, S.G. ... ... 7 lbs. 2/1 lb.; 1 lb. 2/3 lb.
Codeina B.P. ... . 1 oz. 13/- oz.
Codeinæ Phosph. B.P. ... 1 oz. 11/4 oz.
Colocynth. Turc. Pulv. ... 1 lb. 1/3 lb.
,, ,, Pulpa Pulv. 1 lb. 2/9 lb.
Conf. Sennæ B.P. ... ... 7 lbs. 7½d. lb.; 14 lbs. 7d. lb.
Cort. Aurant. Exot. Shreds.... 7 lbs. 8d. lb.
,, Canella Pulv. ... ... 7 lbs. 1/- lb.
,, Cascara Sagrada ... 7 lbs. 6d. lb.
,, ,, ,, Contus. 7 lbs. 7d. lb.
,, Cascarillæ, Sifted ... 7 lbs. 1/- lb.
,, Cassiæ ... ... 7 lbs. 6d. lb.
,, ,, Pulv. ... ... 7 lbs. 7d. lb.
,, Cinchonæ Rub. Quill. ... 7 lbs. 1/2 lb.
,, ,, ,, Pulv. ... 7 lbs. 1/2 lb.
,, Cinnamomi Pulv. ... 7 lbs. 1/2 lb.
,, Mezerei. ... ... 7 lbs. 7d. lb.
,, Pruni Virg. ... ... 7 lbs. 7d. lb.
,, ,, ,, Contus. ... 7 lbs. 8d. lb.
,, Ulmi Fulvæ Pulv. ... 7 lbs. 10d. lb.
Cotton Wool, Absorbent Interleaved ... ... 7 lbs. 8d. lb.
Cream Tartar B.P. ... ... 1 cwt. 74/- cwt. (Carr. Forward.)
,, ,, ,, ... 28 lbs. 8½d. lb.; 7 lbs. 9d. lb.
Creasotum Beechwood, B.P. 7 lbs. 2/3 lb.; 1 lb. 2/6 lb.
Creta c. Camph. ... ... 7 lbs. 7d. lb.
,, Gall. Pulv. ... ... 7 lbs. 1½d. lb.
,, Praep. Cones ... ... 7 lbs. 9d. all
Croci Stigmata B.P. ... ... 4 ozs. 2/4 oz.; 1 oz. 2/3 oz.
Cupri Sulphas Opt. ... ... 1 cwt. 32/- cwt. (Carriage Forward.)
,, ,, ,, ... 7 lbs. 4½d. lb.

Dec. Aloes Co. Conc. 1–2. ... 6 lbs. 2/3 lb.
,, ,, ,, ,, sine Croco. 6 lbs. 1/1 lb.
,, Cinchonae Rub. Conc. 1–7. 6 lbs. 2/3 lb.
,, Haematox. Conc. 1–7. ... 6 lbs. 1/2 lb.
,, Sarsae Jam. Co. Conc. 1–7. 6 lbs. 2/- lb.
,, Scoparii Conc. 1–7. ... 6 lbs. 1/5 lb.
,, Senega Conc. 1–7... ... 6 lbs. 1/10 lb.

Eau de Cologne ... ... 1 lb. 4/3 lb.
Effervescing Saline. ... ... 7 lbs. 8d. lb.
Emp. Belladon. B.P. ... ... 1 lb. 3/- lb.
,, Canthar. B.P. ... ... 1 lb. 2/6 lb.
,, Ferri ... ... 1 lb. 8d. lb.
,, Hydrarg. B.P. ... ... 1 lb. 2/3 lb.
,, Picis B.P. ... ... 1 lb. 9d. lb.
,, Plumbi B.P. ... ... 1 lb. 8d. lb.

Emp. Resinae B.P. ... ... 1 lb. 8d. lb.
,, Saponis B.P. ... ... 1 lb. 8d. lb.
Ess. Vanillae, Genuine. ... 1 lb. 4/6 lb.
Ext. Aloes Barb. B.P. ... 1 lb. 1/6 lb.; Pulv. 1/9.
,, ,, Socot. ... ... 1 lb. 2/4 lb.; Pulv. 2/8.
,, Anthemidis B.P. ... 1 lb. 4/- lb.
,, Belladon. Viride B.P. ... 1 lb. 3/- lb.; Pulv. 4/-
,, ,, Alc. B.P. .. 1 lb. 3/6 lb.
,, ,, Liq. B.P. ... 5 lbs. 4/6 lb.; 1 lb. 4/9.
,, Calumbae. ... ... 1 lb. 4/- lb.
,, Cannabis Ind. B.P. ... 1 lb. 36/- lb.; 4 ozs. 2/4 oz.
,, Cascarae Sagradae B.P. 1 lb. 2/9 lb.
,, ,, ,, Pulv. 1 lb. 3/- lb.
,, ,, ,, Liq. B.P. 6 lbs. 1/1 lb.
,, ,, ,, ,, Tasteless. 6 lbs. 1/6 lb.
,, Cinchonae Liq. B.P. ... 1 lb. 2/6 lb.
,, Cocae Liq. B.P. ... ... 1 lb. 4/6 lb.
,, Colocynth. Co. B.P. ... 1 lb. 4/- lb.
,, ,, ,, ,, Pulv. 1 lb. 4/9 lb.
,, Conii ... ... 1 lb. 1/6 lb.
,, Damianae ... ... 1 lb. 7/6 lb.
,, ,, Liq. ... ... 1 lb. 5/- lb.
,, Ergotae B.P. ... ... 1 lb. 15/- lb.
,, ,, Liq. B.P.... ... 6 lbs. 3/- lb.
,, Filicis Liq. B.P. ... 1 lb. lb.
,, Fuci Vesiculos, Liq. ... 1 lb. 2/8 lb.
,, Gentian B.P. ... ... 1 lb. 10d. lb.
,, ,, ,, Pulv. ... 1 lb. 1/10 lb.
,, Glycyrrh. B.P. ... ... 1 lb. 1/6 lb.
,, ,, Molle. ... 1 lb. 1/- lb.
,, ,, Liq. B.P. ... 6 lbs. 1/2 lb.
,, Hamamelidis Liq. B.P.... 5 lbs. 3/4 lb.
,, ,, ,, Dest.... 5 lbs. 1/3 lb.
,, Hyoscyam. Viride B.P.... 1 lb. 5/3 lb.
,, Ipecac. Liq. B.P. ... ... 1 lb. 11/6 lb.
,, Nucis Vom. B.P.... ... 1 lb. 3/- lb.
,, ,, ,, Liq. B.P. ... 5 lbs. 2/9 lb.; 1 lb. 3/-
,, Opii B.P. ... ... 1 oz. 2/9 oz.
,, Papaveris Alb. ... ... 1 lb. 1/8 lb.
,, Quassiae. ... ... 1 lb. 6/- lb.
,, Quillaiae. ... ... 1 lb. 3/- lb.
,, Rhei B.P. ... ... 1 lb. 6/- lb.
,, ,, ,, Pulv. ... 1 lb. 6/6 lb.
,, Sarsae V.C. ... ... 1 lb. 5/6 lb.
,, ,, Co.... ... ... 1 lb. 4/3 lb.
,, ,, Jam. Co.... ... 1 lb. 6/- lb.
,, Sarsae Liq. B.P. ... ... 1 lb. 4/6 lb.
,, Stramonii B.P. ... ... 1 lb. 10/6 lb.
,, Taraxaci B.P. ... ... 1 lb. 1/6 lb.

Ferri Carb. Sacch. B.P. ... 1 lb. 6d. lb.
,, et Ammon. Cit. B.P. ... 7 lbs. 1/6 lb.; 1 lb. 1/7
,, ,, Quinin. Cit. B.P. ... 100 ozs. 3½d. oz.; 25 ozs. 3½d. oz.
,, Sesquioxid. ... ... 7 lbs. 4d. lb.
,, Sulphas B.P. ... ... 7 lbs. 3d. lb.
,, ,, Exsic. B.P. ... 7 lbs. 4d. lb.
,, ,, Gran. Pur. ... 7 lbs. 4d. lb.
Ferrum Redact. B.P. ... ... 7 lbs. 1/3 lb.
,, Tartaratum. ... ... 1 lb. 2/2 lb.
,, Wire. ... ... 1 lb. 1/3 lb.
Flor. Anthem. Good Medium. 7 lbs. 9d. lb.
,, Pyrethri Pulv. ... ... 7 lbs. 1/3 lb.

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Bijou	Small	Large	Jumbo
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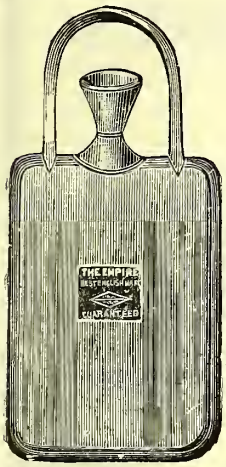


Fig. 955.
TOP HANDLE.

SIZES.	HEAVY. s. d.	LIGHT. s. d.	PLUSH COVERS. s. d.
6× 8 inch ...	2 8 each	2 5 each	0 8 each
6×10 ,, ...	3 0 ,,	2 8 ,,	0 8 ,,
6×12 ,, ...	3 5 ,,	3 1 ,,	0 10 ,,
8×10 ,, ...	3 8 ,,	3 2 ,,	0 10 ,,
8×12 ,, ...	4 2 ,,	3 7 ,,	0 11 ,,
8×14 ,, ...	4 9 ,,	4 2 ,,	0 11 ,,
10×12 ,, ...	4 9 ,,	4 2 ,,	0 11 ,,
10×14 ,, ...	5 4 ,,	4 10 ,,	1 0 ,,
12×14 ,, ...	6 2 ,,	5 7 ,,	1 2 ,,

N.B. Owing to the recent enormous rise in the price of raw rubber we are compelled to add an advance of 10% on above prices. This advance will be taken off the moment the state of the market permits, but as the present indications point to still higher prices, we strongly advise all our friends to place their orders for winter stock at once.

Each one in neat paper bag with directions for using.

For orders of two dozen bottles assorted we will put rubber tablet with customer's name on free of charge.



Fig. 957.
SIDE HANDLE.

5% discount allowed for prompt cash off above prices. Carriage paid on orders of £2 and upwards to any town in the United Kingdom.

OUR GOODS ARE RIGHT AND PRICES LOW.

WRITE FOR NEW ILLUSTRATED PRICE LIST, POST FREE.

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3 sizes—1½, 2, and 4 oz.

Smartest and Best Value in the market.

Sole Packers of this particular line:

SHIRLEY BROTHERS, Ltd.

Prices, &c., on application.

The old-fashioned round jars are "not in it" with this package.

MENTHOL & MENTHOL & EUCALYPTUS SNUFF.



Oak Box.

Both on P.A.T.A. at 3½d.

Plenty of Profit to all concerned.



Tortoiseshell Box.

1 doz., **1/10**; 6 doz., **1/8** doz.; 12 doz., **18/6**; 5-gross lots, **16/6** net.



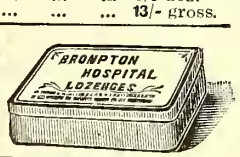
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In Blue & Silver Decorated Hinged-lid boxes.

Filled ... ... **3/6** doz.

Empty ... ... **13/-** gross.

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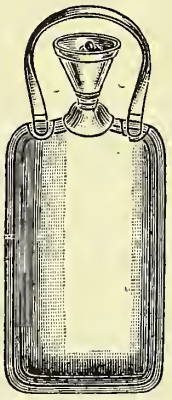
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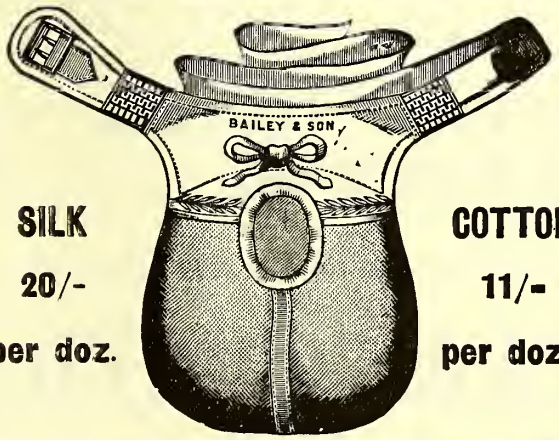


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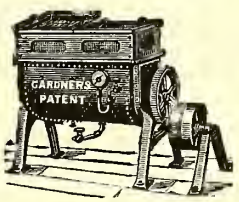
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